House & Garden

A CONDÉ NAST PUBLICATION

©

FURNITURE NUMBER

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Reproduction from a painting made at "Wilpen Hall," the estate of Mrs. William Penn Snyder, Sewickley, Pa., by Frank Swift Chase

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There is true economy in Davey service

Davey Tree Surgeons live and work in your vicinity

Among prominent persons and institutions served by Davey Tree Surgeons are the following:

WM. HORLICK, JR.
MADAME MARCELLA SEMBRICH
AETNA LIFE INSURANCE COMPANY
MERION CRICKET CLUB
MRS. BENJAMIN N. DUKE
UNIVERSITY OF TEXAS
PHILIP K. WRIGLEY
FRANKLIN SIMON
SAMUEL PRENTISS BALDWIN

Davey Tree Surgeons give you more service per dollar than any untrained or irresponsible men who may claim to work more cheaply per hour. There are very definite reasons for this fact.

Davey experts work with the assurance of scientific skill and successful experience, and without hesitation, guesswork, or loss of time. They are trained in the Davey Institute of Tree Surgery, the only school of its kind in the world.

No unnecessary work is permitted to be done by Davey Tree Surgeons. They are required by both organization discipline and professional training to do only those things which should be done in the client's interest.

No money is wasted by Davey experts on trees that are too far gone. Furthermore, those trees that are in questionable condition are given only first-aid treatment, until it has been demonstrated by the increasing vigor of the trees that an investment in full treatment is warranted.

Davey work is done right, both mechanically and scientifically. It has permanent value and does not need to be done over again. It saves trees that are capable of being saved.

All Davey experts are workers—no other kind are retained in the Davey Organization. Diligent effort and faithful performance are required and guaranteed.

The service of Davey Tree Surgeons is really local to you. They live and work in your vicinity. There is no charge for lost time—only for actual working time. There is no cost to you for carfare or any other extras except the materials that go into the work. Write or wire Kent, Ohio, or nearest branch office for a free examination of your priceless trees without obligation on your part.

Tune in Davey Tree Surgery Hour

Every Sunday afternoon, 5 to 6 Eastern time; 4 to 5 Central time; over the Red Network National Broadcasting Company. Featuring the old-time songs that everyone knows and loves. Listen to Chandler Goldthwaite on the Skinner Residence Organ.

JOHN DAVEY
1846-1923
Father of Tree Surgery
Reg. U. S. Pat. Office

THE DAVEY TREE EXPERT CO., Inc., 534 City Bank Bldg., Kent, Ohio

Branch offices with telephone connections: Portland, Me., Boston, Worcester, Pittsfield, Providence, Hartford, Torrington, Westport, Stamford, New York City, White Plains, Patchogue, L. I., Hempstead, L. I., Albany, Syracuse, Rochester, Buffalo, Toronto, Montreal, Orange, N. J., Ridgewood, N. J., Madison, N. J., Philadelphia, Baltimore, Washington, Richmond, Pittsburgh, Cleveland, Toledo, Columbus, Dayton, Cincinnati, Indianapolis, Louisville, Lexington, Paducah, Detroit, Grand Rapids, Chicago, Milwaukee, Oconomowoc, Wis., Minneapolis, Des Moines, St. Louis, Kansas City, Mo., Charlotte, N. C., Atlanta, Jacksonville, Orlando, Birmingham, Montgomery, New Orleans, Tulsa, Dallas.

There are no Davey Tree Surgeons except those in the employ of The Davey Tree Expert Company

DAVEY TREE SURGEONS

MARTIN L. DAVEY, *President and General Manager*

TIFFANY & CO.

JEWELERS SILVERSMITHS STATIONERS

JEWELRY AND SILVERWARE

Noted for Quality
Moderately Priced

MAIL INQUIRIES RECEIVE PROMPT ATTENTION

FIFTH AVENUE & 37TH STREET
NEW YORK

CARON CORP., 389 FIFTH AVE., NEW YORK

House & Garden is published monthly by The Condé Nast Publications, Inc., Boston Post Road, Greenwich, Conn. Executive and Publishing offices, Greenwich, Conn. Entered as second class matter at the Post Office at Greenwich, Conn., under the Act of March 3rd, 1879. Editorial offices, Graybar Building, Lexington at 43rd, New York, N. Y. Subscriptions for the United States, Canada, Porto Rico, Hawaii and the Philippines, $3.00 a year in advance.

SCHMIEG HUNGATE KOTZIAN

Our large showrooms are a permanent exhibit of constantly changing models of Fine Handmade Furniture — traditional in design and unexcelled in craftsmanship. Here dealers and interior decorators have an exceptional opportunity for careful selection of unique and distinctive pieces—at wholesale only. The public are invited to inspect our creations and order through dealers or decorators.

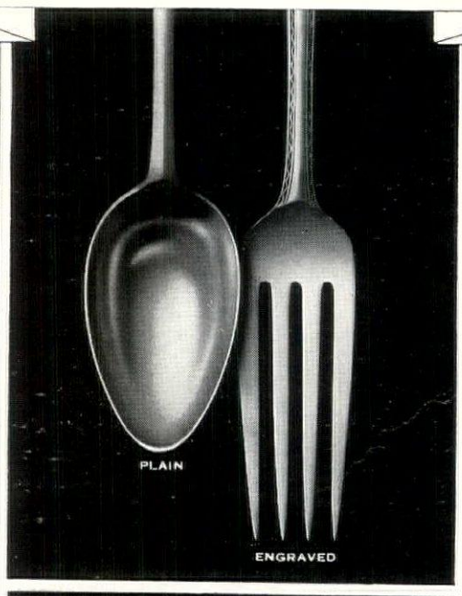
Showrooms and Factory • 521 East 72nd St., New York, Butterfield 8-8165 • 820 Tower Court, Chicago, Ill., Superior 7340 • 5514 Wilshire Boulevard, Los Angeles, Cal., Oregon 0302

YOUR SILVER ... AND THE ENSEMBLE OF YOUR HOME

IN homes of gentle heritage, you will always find STERLING tableware. And among people whose taste is as modern as their traditions are long-established, there will you see TREASURE SOLID SILVER. For TREASURE silversmiths have added, to the accepted beauty and significance of Sterling, the new finesse of related design. TREASURE patterns reflect, in form and motif, the distinctive manner of the important periods.

★ ★ ★

The EARLY AMERICAN STYLE, which follows so faithfully the spirit of our own Colonial silver, was expressly created for the Early American interior, decorated in simple maple pieces or in the more formal Colonial mahogany. And every prevailing tradition in modern decoration — EARLY ENGLISH, SPANISH or MEDITERRANEAN, GEORGIAN—may have its complement now in appropriate Sterling tableware ★ TREASURE Solid Silver is carried in stock by leading Jewelers who will welcome the opportunity of showing you the various patterns in correct decorative styles.



"Treasure"
Solid Silver
STERLING 925/1000 FINE

★ ★ ★

There is a new TREASURE booklet, "THE MODERN WAY TO CHOOSE YOUR SILVER," which shows how the discerning hostess may relate the pattern of her Sterling tableware to the ensemble of her home. We shall be happy to send you a copy, if you will address your request to Dept. B-2

ROGERS · LUNT & BOWLEN CO.
Silversmiths · CREATORS *of* DISTINCTIVE TABLEWARE
GREENFIELD, MASSACHUSETTS
Member of the Sterling Silversmiths Guild of America

B. ALTMAN & CO.

FIFTH AVE. MADISON AVE. 34th STREET 35th STREET

NEW YORK

Announce

VAST REDUCTIONS ON THE ENTIRE STOCK OF

Fine Furniture

Altman policies of fair dealing, honest prices and strict standards of valuation prevail throughout the sale. Every item is from our regular stock

Reduced 20 to 50 Per Cent

from its normal, fair price. Every type of furniture is included WITHOUT RESERVATION.

A considerable portion of this furniture was brought over from England and the continent during recent months to augment our exhibition of fine interiors.

TREASURE TROVE

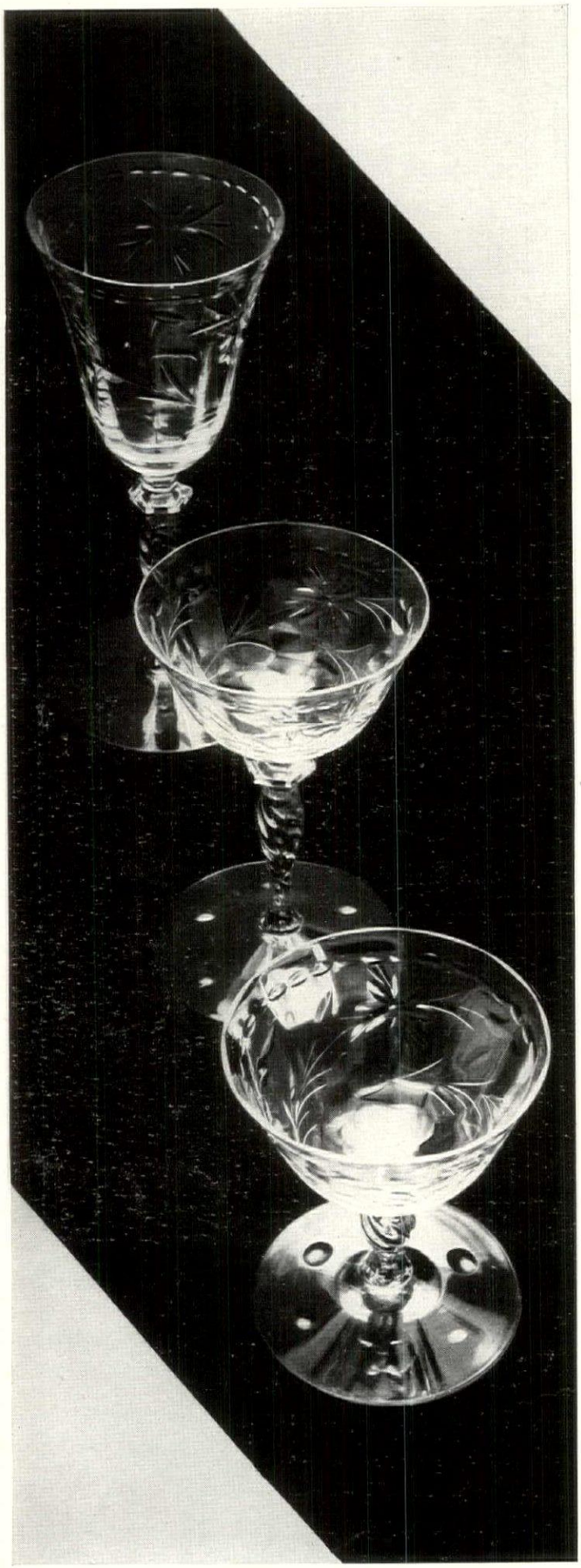
Reductions of 20 per cent are offered on all the art objects, including bronzes, pewter, porcelains, glassware and semi-precious stones displayed in this delightful shop. This presents a rare opportunity to secure exquisite objects for wedding, anniversary or hostess gifts at a substantial saving.

Included in this sale are

Period Reproductions
Antique Fabrics
Custom Bedding
Modern Furniture
Occasional
Office Furniture
Separate Pieces
Importations
Antiques
Suites
Mirrors

FURNITURE—SEVENTH AND EIGHTH FLOORS

TREASURE TROVE—SEVENTH FLOOR



Sloan Rock Crystal Ware in fifteen patterns, including all types of glasses, goblets and plates in three sizes, may be obtained at Gimbel's, New York; Carson, Pirie & Scott, Chicago; Snellenberg's, Philadelphia; A. Stowell & Co., Inc., Boston; Ed. Schuster & Co., Milwaukee; Sterling & Welch Co., Cleveland; Kresge, Newark. If your favorite store does not carry it, write direct to Sloan, Lonaconing, Md. Prices to suit every purse.

S P A R K L E !

The brilliance of a midwinter night outdoors. Trees and shrubbery snowladen and hung with icicles glistening in the moonlight. The air—crisp and crystal-clear. Indoors . . . the warmth and glamour of glowing logs and lamplit rooms. The table formally set for guests . . . fine lace, china, silver . . . flowers, candles. And against this lovely background the sparkling accent of SLOAN ROCK CRYSTAL WARE . . . the final touch that brings the brilliance and beauty of the outdoors indoors.

SLOAN

ROCK CRYSTAL WARE

RINGS LIKE A BELL

LONACONING MARYLAND

"YOU MUST START WITH FINE *hard maple*
THEN *hand-rub* AND *hand-wax* IT TO MAKE
FURNITURE LIKE THESE *Corner Shop* PIECES"

— said a nice old gentleman who is a cabinet-maker as was his father before him, when describing the evolution of a Corner Shop reproduction. Then he went on to say that the maple must be chosen ever so carefully so that expert wood-working and finishing can impart to it the rich color and faintly irregular surface which is so charming in old pieces. The arrangement above suggests a delightful chamber for the daughter of the house, which might be used for a guest room when she is away at school. The chest, $119.00, the bed, $34.75, the desk, (it has amusing details) $109.00, the little chair with seat of corn shuck, $8.94

MACY'S

34th Street and Broadway, New York

In this 18th Century window group, Agnes Foster Wright uses draperies of powder blue Celanese Permanent Moire over glass curtains of gray green Celanese Taffeta.

The Gracious Elegance of the 18TH Century Setting

is typified by

CELANESE

IN the growing importance of the 18th Century interior as a background harmonious to ultra-feminine fashions, Celanese Fabrics play their modern part. Leading decorators prefer them because Celanese interprets so gracefully the dignified charm of the Georgian period, and at the same time meets the practical standards of to-day. Fabrics of Celanese have a natural, luxurious weight, free from all loading . . . they are not injured by rain or fog . . . will not shrink or stretch . . . or mold or mildew . . . dry-clean perfectly . . . and the colors are unusually fast. Moires that are *permanent* . . . Taffeta weaves that do not split or crack . . . and Satin weaves that will not rough up . . . are among the unique contributions of Celanese Fabrics to the decorative field.

CELANESE

TRADE MARK REG. U. S. PAT. OFF.

Decorative Fabrics

Celanese yarns, fabrics and articles are made of synthetic products manufactured exclusively by the Celanese Corporation of America, 180 Madison Ave., New York City

An Invitation to Lounge and Relax

ITALIAN in influence, yes . . . . but modified and adapted to modern home requirements . . . this carved antique solid Walnut chair and pedestal table exemplify the skillful manner in which Kittinger craftsmen blend the beauty of the Renaissance with the practical and comfortable.

Almost every period in the history of fine furniture-making is represented in the 700 Kittinger pieces that are carved and fashioned from solid woods exclusively . . . . Walnut, Mahogany, Oak and Maple.

Kittinger production methods bring many of these distinctive pieces within the reach even of modest incomes.

A copy of an interesting and helpful book on furniture arrangement and decoration will be mailed to you for the asking . . . . Address Kittinger Company, 1891 Elmwood Ave., Buffalo, N. Y. . . . or may be secured by calling at any of our showrooms.

Kittinger Distinctive Furniture is sold by leading dealers and decorators everywhere.

You will receive a cordial welcome at any of our showrooms.

Buffalo
At Factory
1891 N. Elmwood Ave.

New York City
205 East 42nd Street

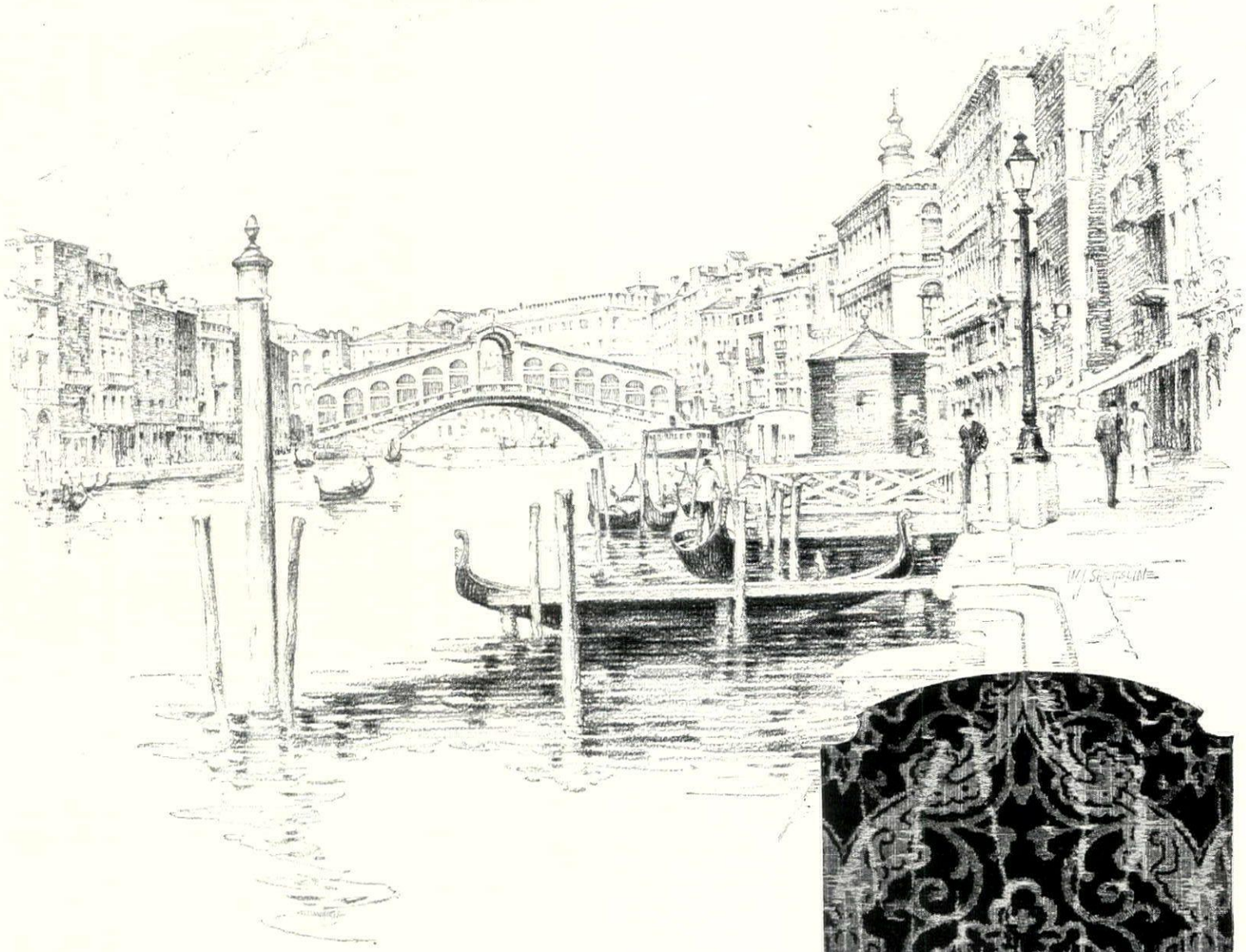
Chicago
433 East Erie Street

Los Angeles
At Factory
1300 S. Goodrich Blvd.

The Reception Room in our Factory Showroom Los Angeles, California

KITTINGER
Distinctive Furniture

© 1931, Kittinger Company



IMPORTED

Upholstery and Decorative Fabrics

ESTABLISHED more than a century ago, Johnson & Faulkner for generations have been importing Old World fabrics to meet the most exacting requirements of the decorative trade. Decorators and their clients are cordially invited to visit the new Johnson & Faulkner Building, and to inspect, under ideal conditions, a comprehensive display of every type of high class fabric required in the decoration of the modern home.

This example of velvet comes from Northern Italy and, while modern, has all the characteristics of the ancient in design, color, and weave. The subject was derived from a Roman Mosaic of the time of Benvenuto Cellini and therefore the fabric will be called "Cellini Velvet".

JOHNSON & FAULKNER

Established 1823 — 43-49 EAST 53RD STREET, NEW YORK — *Incorporated 1923*

BOSTON
420 Boylston Street

PHILADELPHIA
1528 Walnut Street

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1512 Heyworth Building

PARIS
50 Faubourg Poissonniere

SAN FRANCISCO
442 Post Street

LOS ANGELES
816 South Figueroa Street

LIKE FLOWERS IN A ROOM

they lend the final, gracious touch

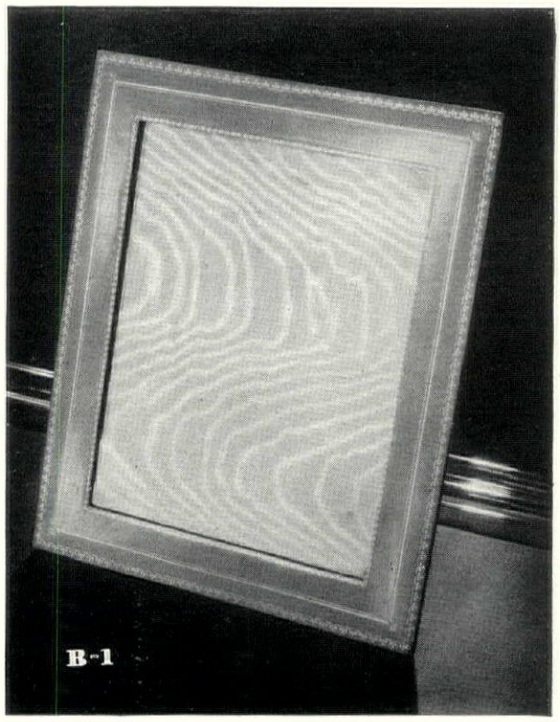
IT IS ONE of the pleasant experiences of life to discover, while looking over one's private collection of photographs, that only little things really matter, after all. The orchard of your first home, with the white picket fence beyond . . . Laddie, fluffy and small, and rather bored with cameras . . . a priceless snapshot of Barbara . . . these glimpses, gay and luminous, give depth and meaning to life.

Certain photographs, more precious than the others, ought to be framed. A frame will share its quiet, formal beauty . . . it serves, as well, to guard and preserve the portrait. And in a modest way, it is a symbol of your affection.

Among a great many people who own and treasure lovely things, it is almost taken for granted that the frame shall be of fine leather. And if, by some chance, you could see the articles they select . . . an intimate frame, in sleek black calfskin . . . one with handsome inserts, chastely carved in jade . . . a drawing-room folio, hand-tooled in the Florentine manner . . . you would discover that the great majority of them are imprinted with a tiny golden keystone R.

That insignia, found upon each piece of fine leather manufactured by C. F. Rumpp & Sons, Inc., of Philadelphia, is the guide by which such people frequently make their selection. For them, and for you, it is the seal of a high tradition . . . a simple, infallible witness that the gift is good.

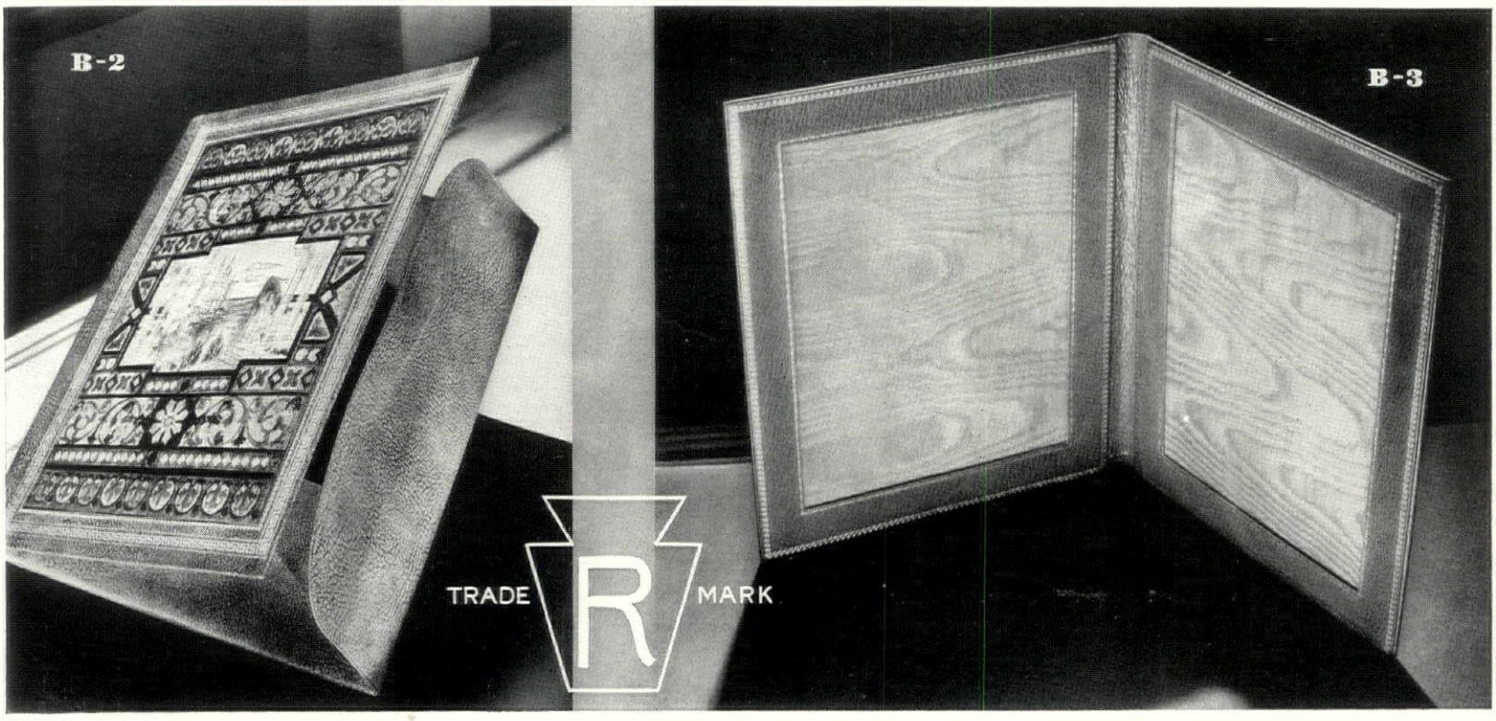
C. F. Rumpp & Sons, Inc., manufacture fine leather articles of every description, excepting luggage. They may be had at the better leather goods stores, department stores, jewelers, stationers, and haberdashers.



B-1 . . a green easel frame, in ecrase leather, with gold hand-tooling. This also is available in other leathers and colors, in varying sizes.

B-2 . . a drawing-room folio, exquisitely hand-tooled in the Florentine manner, with a gold-tooled border. This is also available in a wide variety of other designs and colors.

B-3 . . a double photograph frame, in ecrase-finished green leather, with gold hand-tooling. This frame, which may also be had for single photographs, is available in assorted colors, leathers and sizes.



C. F. RUMPP & SONS, INC.

By Invitation Member

PHILADELPHIA AND NEW YORK
ESTABLISHED 1850

These unique fireplace accessories are

JACKSON'S ELECTRIC LOG FIRE

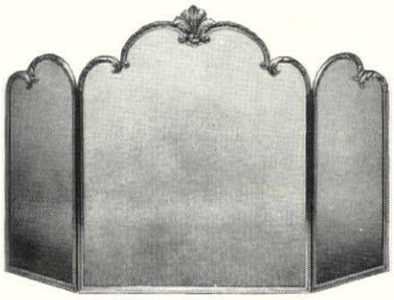
IN 1827, when the Wm. H. Jackson Company began manufacturing Fireplace Accessories for America's "first families", roaring fires were the fashion, and we turned to our hearths for heat as well as cheer. Today, our homes are amply heated and in those which are most modernly furnished we find a new type of "fire" which is as inviting in July as in December... a fire which warms the cockles of the heart without running up the thermometer. ~ Jackson's Electric Log Fires reproduce the lively flicker and warm, friendly glow of a burning fire to perfection. You will be amazed at their *naturalness*. They are a delightful decoration for any hearth, *even when they are not lighted*. ~ Jackson's Electric Log Fires may be had with either *"birch"* or *"oak"* logs and with or without Electric Heating Elements. Prices from $85.00.

WM. H.

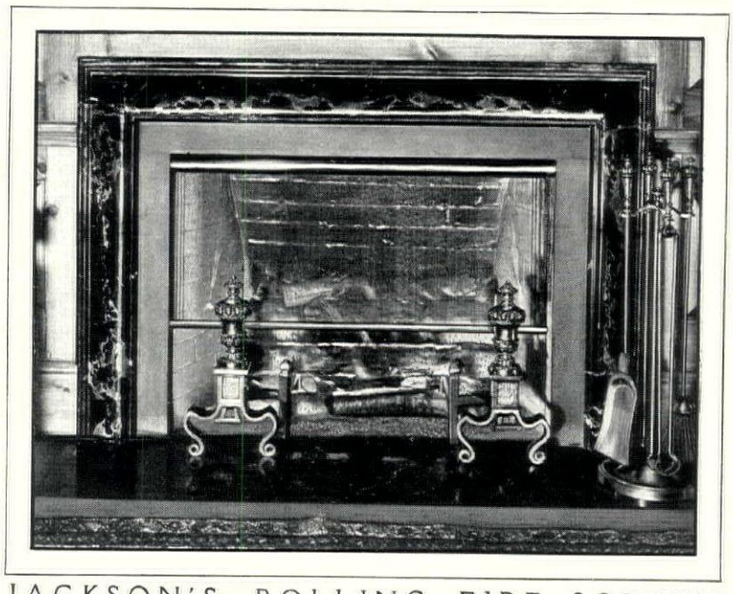
over a hundred years of service to the

now more easily within your reach

YOUR home is your castle, and your hearth is the symbol of your hospitality. Adorn it! Add to its beauty and interest! Give it a handsome setting and fine appointments, that the hours you spend before it may be more pleasurable, and that it may truly reflect the comfort and luxury of your home. ~ You will find the Fireplace Accessories shown here eminently suited to this purpose. Their beauty is exceptional; their quality is outstanding. They are the creations of an organization of highly skilled artists and artisans —an organization which, for more than a century, has made a *fine art* of glorifying the hearth. ~ The standards of design and craftsmanship which are traditional with the House of Jackson are famous throughout the land. They have won the admiration and patronage of America's most discriminating and distinguished families. ~ Jackson's mantels, andirons, screens, and other fireside fittings exalt the hearth to the status of an *objet d'art* —providing a quality of beauty and interest which makes the fireplace the dominant decorative feature. ~ In the past the Wm. H. Jackson Company's Fireplace Accessories have been obtainable only through Jackson's own Galleries in New York and Chicago. ~ Now however, for the greater convenience of its patrons, the Wm. H. Jackson Company has also arranged distribution of its products through the exclusive representatives listed here.

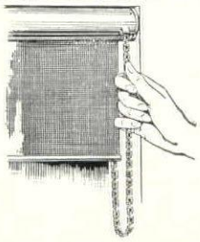


Jackson's Folding Fire Screens are obtainable in a great variety of beautiful Period and Modern designs to complement the various styles of mantels and interiors. Prices from $55.00



JACKSON'S ROLLING FIRE SCREEN

The Jackson patented Rolling Fire Screen is a perfect protection against flying sparks and embers. It covers the entire fireplace opening, if desired, and may be raised and lowered at will by means of a noiseless, endless chain running on fibre gears. The screen is made of fine, flexible wire mesh and is contained in a brass housing which is permanently attached just behind or below the lintel of the fireplace. Prices from $35.00.



These leading establishments, long known for the scope and character of their service, now bring to you, as exclusive representatives, the famed creations of the House of Jackson:

Baltimore
J. G. VALIANT COMPANY

Cincinnati
THE A. B. CLOSSON JR. COMPANY

Cleveland
THE STERLING & WELCH COMPANY

Dayton
THE A. B. CLOSSON JR. COMPANY

Denver
DENVER DRY GOODS COMPANY

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THE MARTIN-GIBSON COMPANY

Philadelphia
J. G. VALIANT COMPANY

St. Louis
SCRUGGS-VANDERVOORT-BARNEY

Washington
J. G. VALIANT COMPANY

JACKSON COMPANY

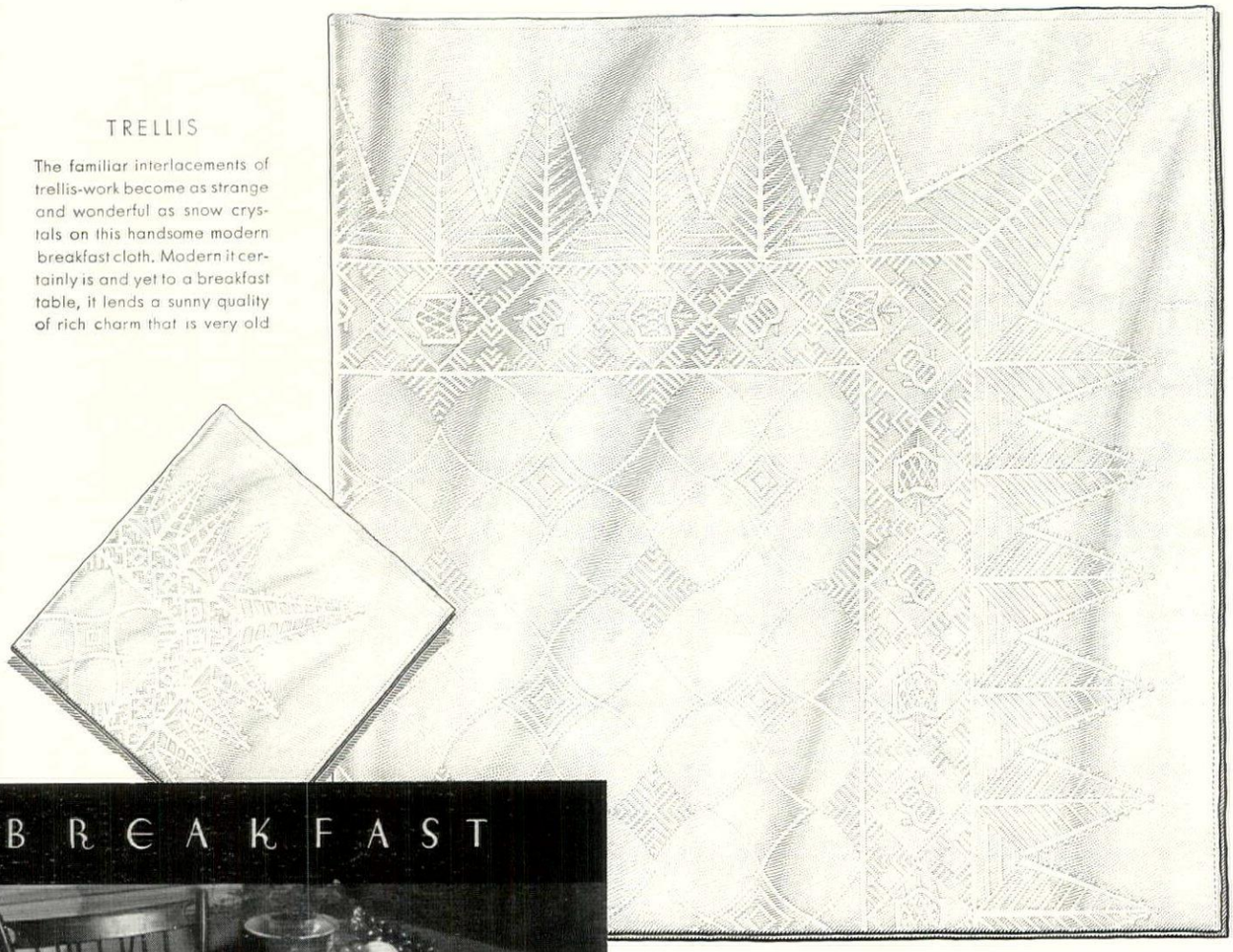
2 West 47th Street, New York
318 No. Michigan Ave., Chicago

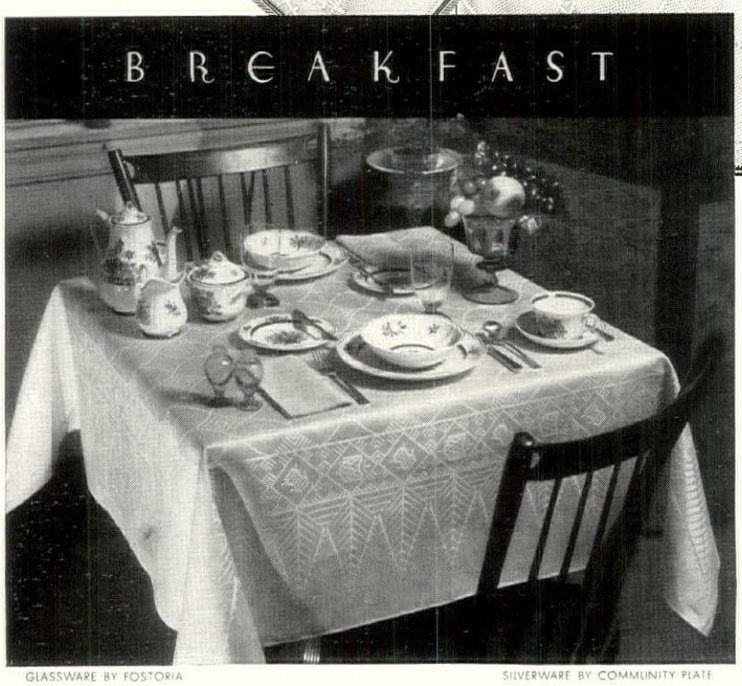
prominent families in the social register

Linen Damask is GAY at Breakfast

TRELLIS

The familiar interlacements of trellis-work become as strange and wonderful as snow crystals on this handsome modern breakfast cloth. Modern it certainly is and yet to a breakfast table, it lends a sunny quality of rich charm that is very old





GLASSWARE BY FOSTORIA SILVERWARE BY COMMUNITY PLATE

LINEN DAMASK on the breakfast table salutes the spirit of the hour which celebrates our reunion with the world. In the morning sunshine, hospitality is as cheerful as the aroma of coffee...as artless as the golden brown harmonies of muffins and marmalade. Among the superb patterns of Linen Damask made on Irish and Scottish looms, there are many especially designed to be used on the table when the day is young and hearts are light.

Many lovely designs in Linen Damask for all occasions are pictured in a new booklet—"*New Beauty in Linen Damask Tablecloths.*" Send ten cents to cover mailing, addressing Dept. VC-2 The Irish and Scottish Linen Damask Guild, Inc., 260 West Broadway, New York.

LOVELY LINEN

DAMASK TABLECLOTHS & NAPKINS

impressively correct

SEE THE NEW IRISH AND SCOTTISH WEAVES AT LEADING STORES

Designs that are New . . . designs that are Old

. . . EACH WITH MELLOW CHIME AND TELECHRON TIME!

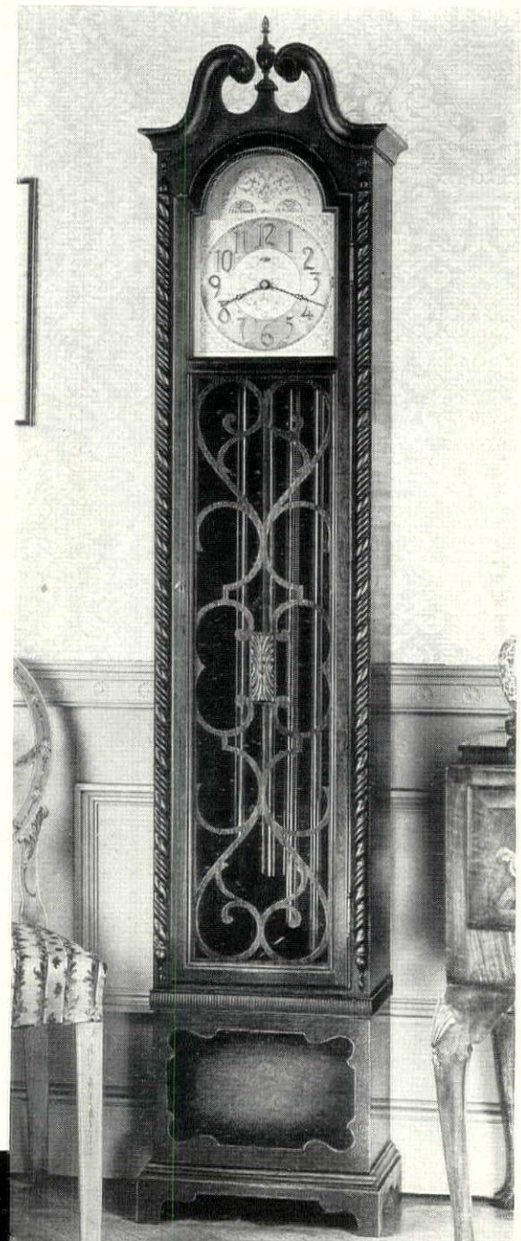
TODAY, time *must* be told truthfully. It should be told pleasantly, as well. . . . For that reason, Revere has added to modern electric accuracy, the beauty of fine cabinetwork and the melody of chimes.

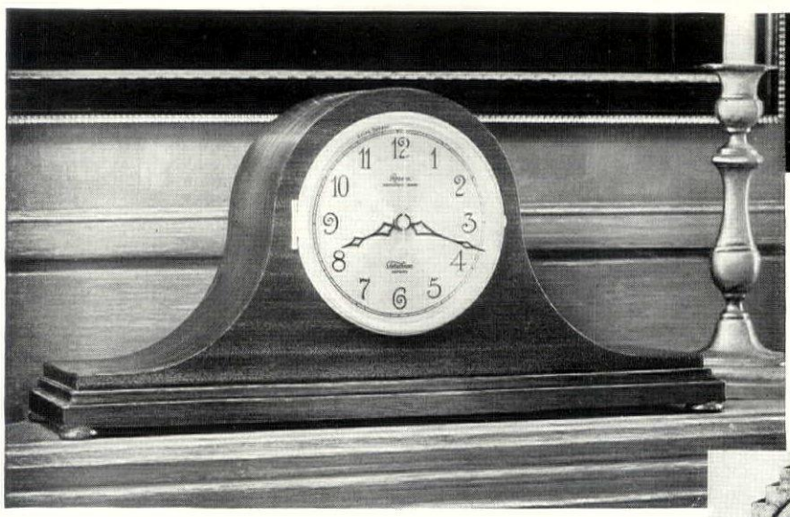
Revere cases derive their designs from many periods — Gothic, Georgian, Queen Anne, Early-American and others. They are wrought from rich woods — mahogany, ebony, rosewood, redwood, satinwood — carved and rubbed by hand. They are fitted with exquisitely etched and inlaid dials — with deep-toned Westminster, Canterbury or Whittington chimes.

And *every* Revere Clock contains a tiny Telechron motor — the most convenient, most accurate marker of minutes that man has ever known. Plugged into an electric outlet, each Revere Clock brings correct time, quietly, continuously, from the Telechron Master Clock in the power house. It never needs winding or regulating.

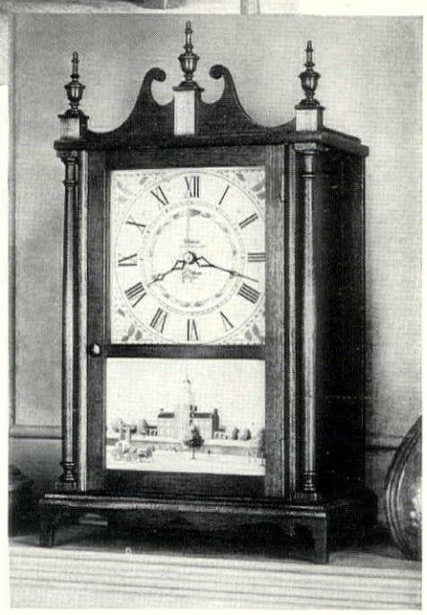
Revere Clocks make any home more livable for those within it. There are models for floor or wall or mantel, ranging in price from $40 to $1200.* You'll find them displayed by good dealers everywhere. They are illustrated also in our free booklet, "Observatory Time." Write for it. The Revere Clock Co., 464 McMillan St., Cincinnati, O.

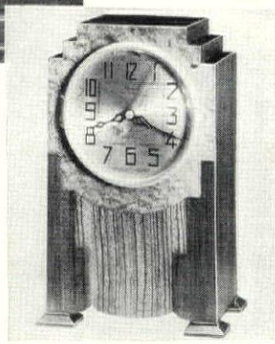
★*The Warren Telechron Company, of Ashland, Mass., manufactures a full line of non-striking clocks at prices up to $55.*





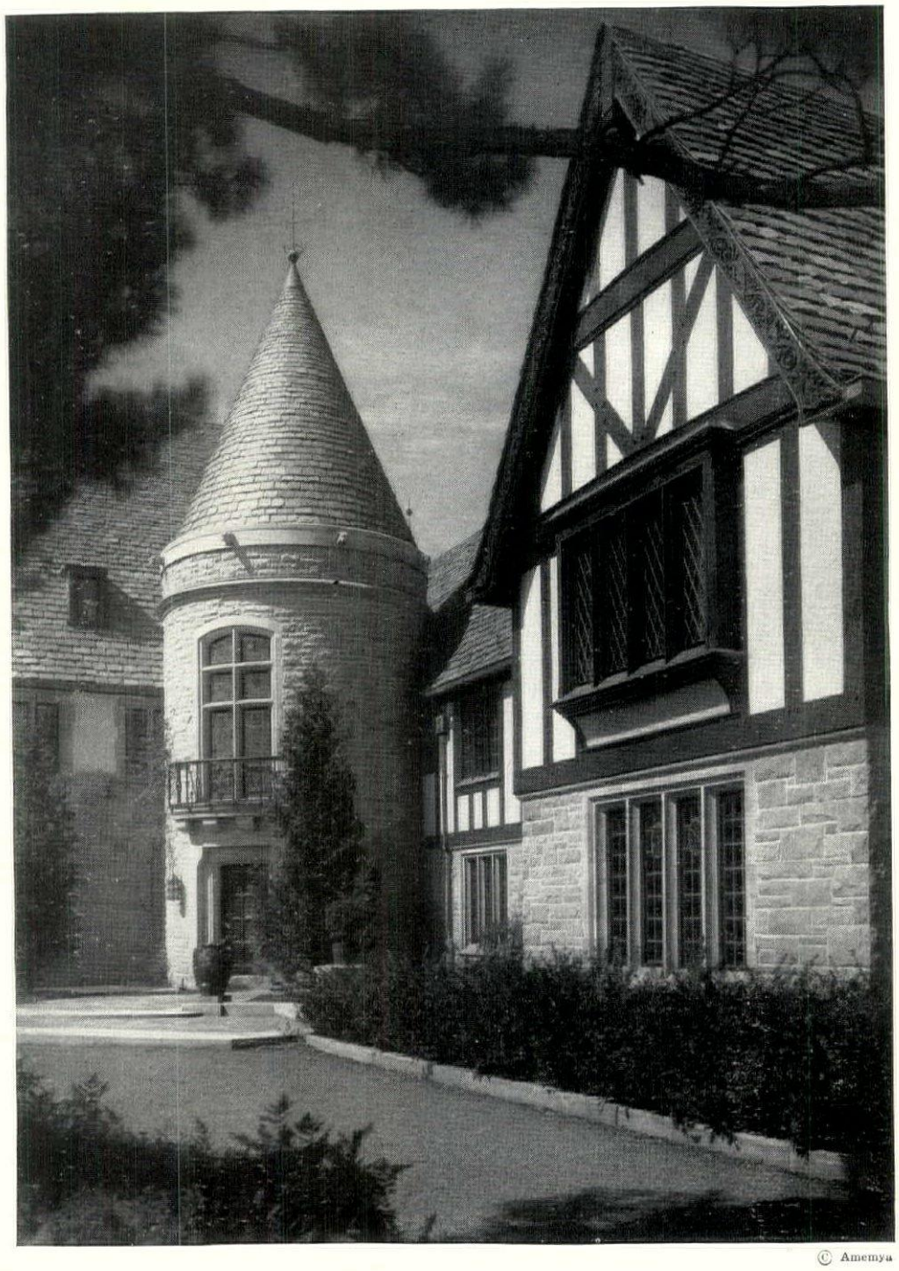
- **Above**—MIDLAND. Georgian design. *Mahogany case, 74" high, Westminster chimes*.....$235
- **Left**—R-638. Colonial model. *Mahogany case, 8⅝" high, 19" wide. Westminster chimes*....$42
- **Right**—R-154. Early-American design. *Mahogany case. Decorated glass door showing Independence Hall. 17½" high. Westminster chimes*.....$85
- **Below**—R-628. Modern design. *Walnut case, 12½" high, 8" wide. Westminster chimes*....$66





Revere Clocks

WITH *Telechron* ELECTRIC MOTORS



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W. E. Scripps Residence, Wildwood Farms, Michigan. Clarence E. Day, Architect, Thomas H. Hewlett, Associate.

WINDOWS THAT POSSESS AND EXPRESS INDIVIDUALITY

That "something different"—so hard to define, so quickly recognized—which sets a house apart is easy to achieve with Crittall Casements. For these beautiful windows have an individuality of their own which they impart to every home where they are used. From the outside as well as from the inside, this distinctiveness is readily apparent—expressive of the good taste of the owner.

Crittall Casements offer so many possibilities for unusual effects. There are quaint latticed windows—with odd-shaped panes of leaded glass—which carry the spirit of the antique. There are modern windows with steel muntins which have the charm of severe simplicity. Whatever type or size of home you plan to build, there are Crittall Casements designed for your particular purpose.

You have a wide choice available. Stanwin and Norman Casements are obtainable in a large variety of standardized sizes and designs. Universal Casements are custom-built. Products of the world's largest manufacturer of metal casement windows, they are fully wind and weather-tight.

Ask your architect to show you illustrations of distinguished Crittall-equipped homes on pages A777 to A842 of Sweet's Architectural Catalogues—and to tell you how Crittall Casements can add individuality to the home you are thinking of building. Or request us to mail you a copy of our catalog.

STANWIN CASEMENTS · NORMAN CASEMENTS · UNIVERSAL CASEMENTS

CRITTALL CASEMENT WINDOW COMPANY

10962 Hern Avenue · Detroit, Michigan

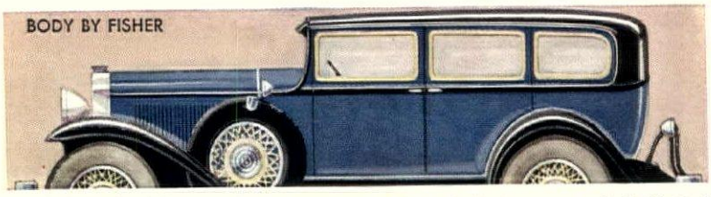
CRITTALL CASEMENTS

THE EIGHT AS BUICK BUILDS IT

Wherever fashion and character reign
there you will find the Eight as Buick Builds It

It is natural that the world of fashion should look upon the new Buick Straight Eight as the type of motor car that merits preference. For in this day, fashion and character go hand in hand. Buick, with its twenty-seven year background of excellence, has character as well as luxury—dependability as well as swift, spirited performance—among its major attributes. And that explains the ever-growing preference for the Eight as Buick Builds It wherever fashion and character reign.

The new Buick Straight Eights . . . four series . . . four price ranges . . . 20 luxurious models . . . $1025 to $2035, f. o. b. Flint, Mich.



PRODUCT OF GENERAL MOTORS

WHEN BETTER AUTOMOBILES ARE BUILT, BUICK WILL BUILD THEM

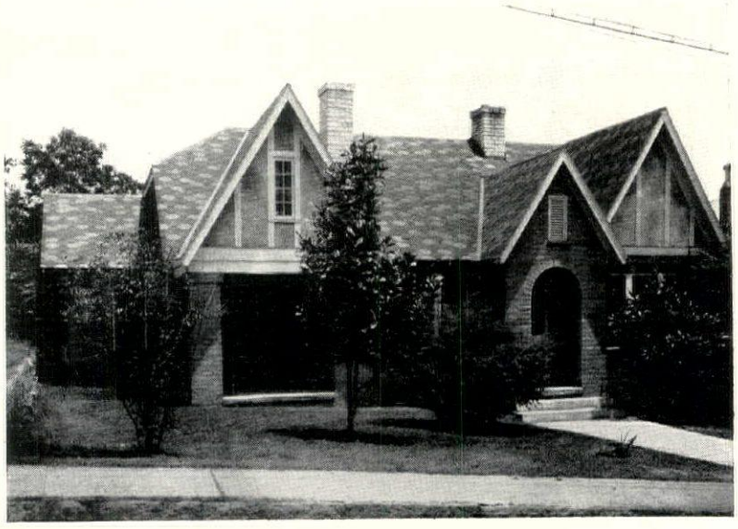
Concrete Masonry is a term applied to block, brick, or tile building units molded from concrete and laid by a mason in a wall. The concrete is made by mixing portland cement with water and other suitable materials, such as sand, pebbles, crushed stone, cinders, burned shale, or slag.

To left, concrete masonry and portland cement stucco residence designed by H. H. Warwick, Architect, Washington, D.C.

•

Below, concrete masonry bungalow designed by W. M. Mountford, Macon, Georgia

"What should I expect of the home I build?"



As the first essential you will probably consider the *safety* and *security* of loved ones and possessions. Only *firesafe* walls and floors can meet this requirement.

As the second essential *comfort* will suggest itself — the comfort of a warm home in winter and a cool home in summer. Only walls that *keep out* temperature extremes can meet *this* requirement.

Certainly, you should expect your home to be good looking and substantial, and inexpensive to maintain throughout a lifetime and more.

Now, then, of what material other than concrete can you *reasonably* expect all these qualities? Walls of the hollow type that insulate interiors from exteriors. Walls and floors that are firesafe, rigid, upkeep-free, long-lasting. (Concrete becomes *stronger* with age!) A distinguished appearing masonry exterior at relatively low cost. Build your home of concrete and *secure* what you should reasonably *expect* of the home you build.

PORTLAND CEMENT *Association*

Concrete for permanence and firesafety

33 W. GRAND AVENUE
CHICAGO

Now, in smart personal transportation —it's Chevrolet

In choosing the most personal of cars—an inexpensive automobile which you will drive yourself—it's rather satisfying to know that you needn't make an obvious compromise with smartness. Certainly not, in the new Chevrolet Six. Fisher Body craftsmen have styled this new car in their best manner—and they have fitted and appointed it with a fine regard for the many conveniences and niceties that modern women instinctively appreciate. Of course, Chevrolet quality goes beyond smart lines and attractive interiors. Mechanical improvements have been made in every important unit. Consequently, there is a new freedom in performance, a new ease of handling and a new security in driving that are rather remarkable in so inexpensive a car. Women of discernment are everywhere showing marked preference for this new Six—that is why we say, "Now, in smart personal transportation, it's Chevrolet."

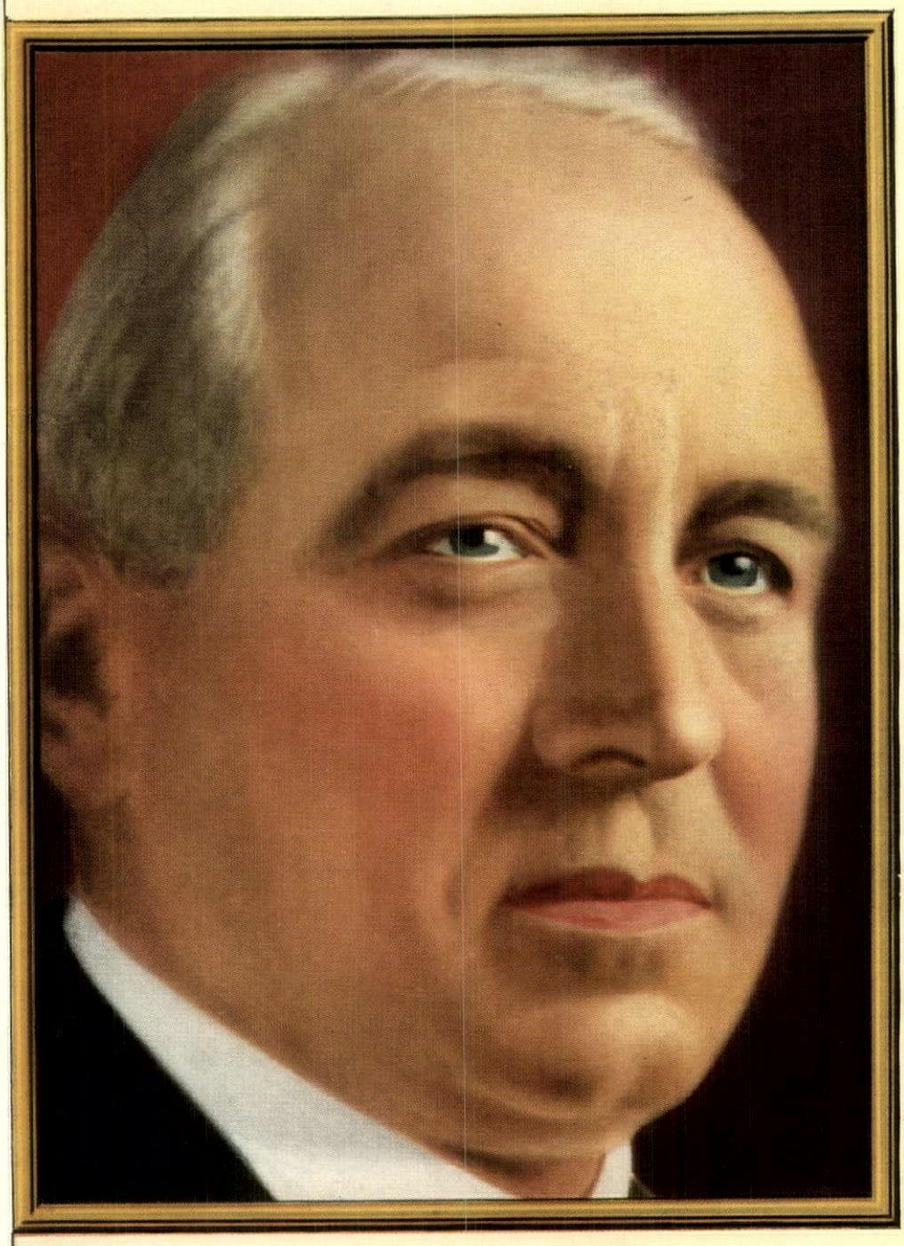
Above is illustrated the Convertible Cabriolet.

Chevrolet prices range from $475 to $650, f. o. b. Flint, Michigan. Special equipment extra
CHEVROLET MOTOR COMPANY, DETROIT, MICHIGAN. *Division of General Motors Corporation*

NEW CHEVROLET SIX

The Great American Value

"CLEAR EVIDENCE"



Says

L. J. HOROWITZ

Chairman of the Board
Thompson-Starrett Co., Inc.

Builders of the new Waldorf-Astoria Hotel, the Woolworth Building, the Paramount Building, the Equitable Building, New York; the General Motors Building in Detroit; the Palmer House in Chicago.

"When modern enterprise joins hands with sure-footed experience, success becomes a certainty. The fusion of these two important factors has given Thompson-Starrett over a billion dollars worth of activity in thirty years. It is interesting to note the application of this same principle in your business. Its clear evidence is your use of the Ultra Violet Ray in the 'Toasting' of the LUCKY STRIKE tobaccos."

L. J. Horowitz

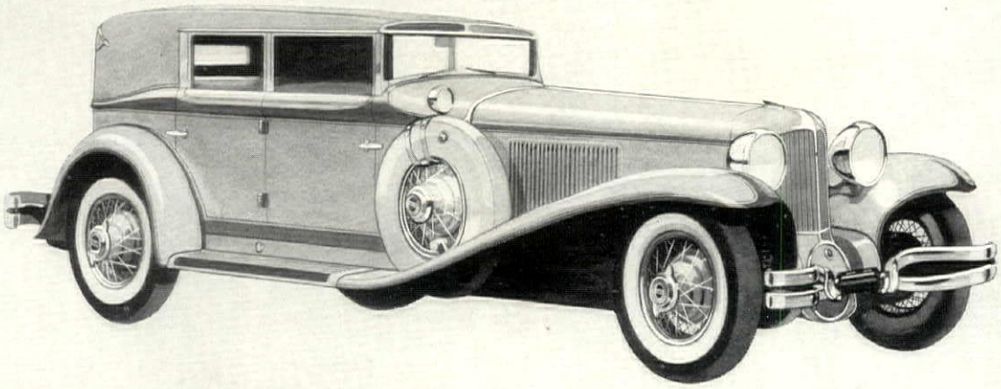
Everyone knows that sunshine mellows — that's why TOASTING includes the use of the Ultra Violet Ray. LUCKY STRIKE — the finest cigarette you ever smoked, made of the finest tobaccos — the Cream of the Crop — THEN — "IT'S TOASTED." Everyone knows that heat purifies and so TOASTING removes harmful irritants that cause throat irritation and coughing. No wonder 20,679 physicians have stated LUCKIES to be less irritating!

"It's toasted"

Your Throat Protection — against irritation — against cough

Consistent with its policy of laying the facts before the public, The American Tobacco Company has invited Mr. L. J. Horowitz to review the reports of the distinguished men who have witnessed LUCKY STRIKE'S famous Toasting Process. The statement of Mr. Horowitz appears on this page.

© 1931, The American Tobacco Co., Mfrs.



FOREIGN TO EUROPE

So foreign is the originality of the Cord design, that it stands out with sharp contrast against the background of the finest motor equipage that Europe has to offer. As a result, in competition in the important Continental Rallyes, the Cord has emerged victorious in thirty-nine events.* No other American automobile has ever gained such overseas renown. In Europe, as elsewhere, the influence of the Cord is felt as the model for others to pattern after. Cord dealers are now showing models of the winning Cord cars chosen by various members of Royalty for their personal use.

*Included are such outstanding awards as: Grand Prix, plus Cup of Honor, at Monte Carlo; Grand Concours d'Elegance Prize at Jaun Les Pins; First Grand Prize, Concours d'Elegance, Cannes, France; First Prize, Concours d'Elegance, Berlin, Germany; Gold Band, Concours d'Elegance, Prague

CORD

FRONT DRIVE

Sedan · Brougham · Cabriolet · Phaeton Sedan · Auburn Automobile Company, Auburn, Indiana

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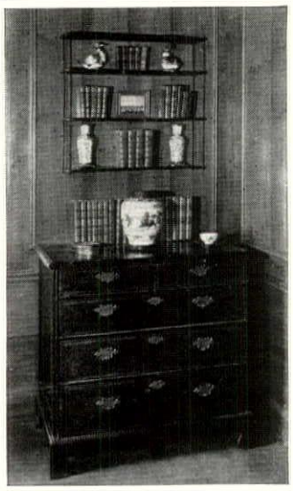
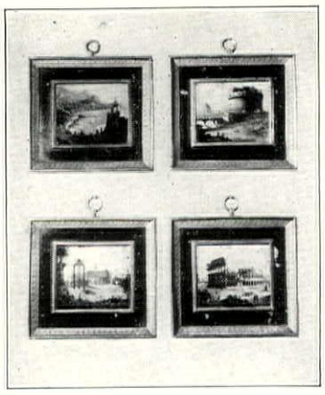


WALTER JOHNSON, INC.
INTERIORS AND ANTIQUES
818 Madison Ave., New York City
Telephone REgent 4-0398

AMONG new floor coverings, the sixteen latest linoleum designs of the Armstrong Cork Company assume an important position in point of distinction and style. The patterns are well designed and are of sufficient variety to harmonize with numerous decorative schemes. The colors have been unusually well selected. Chief among these new floor effects is a large diamond pattern in such desirable color combinations as black and peach and black and sand. There is also a charming pattern inspired by the spatter floors of the Early American era. Terra-cotta stripes are used as accents with three different color combinations of this pattern of which one with a blue background, spattered in red, black and cream, is unusually attractive. Another design, of extreme simplicity, takes the form of small diamond shapes scattered at wide intervals over an otherwise undecorated surface. This may be had in black with turquoise diamonds, blue with sand, and in light plum color with gold.



Four Paintings signed F. Santavelli 1826
Frames in ormolu. Price $275.00 set

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Dinner Plates.....$21.00 doz.
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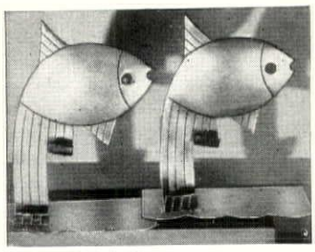

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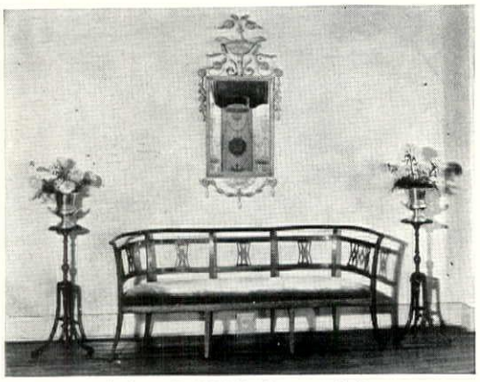

A fine old XVIII Century Settee in fruit wood, length 6'5"

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TABLE LAMP, dull chromium base, shaft of six clear crystal rods, parchment shade. Ask to see Nessen Lamps, Tables and Mirrors, at your favorite shop or decorator's or write to

NESSEN STUDIO, INC.
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DIRECTORY OF DECORATION & FINE ARTS

Charm in the DRESSING TABLE

The charm of this kidney shaped dressing table is in its handsome chintz and the clever decorative use of the material. Swinging arms open out so that the side drawers are easily reached. The etched mirror is separate.

From the Original Closet Shop

The CLOSET Shop
MRS. GEORGE HERZOG
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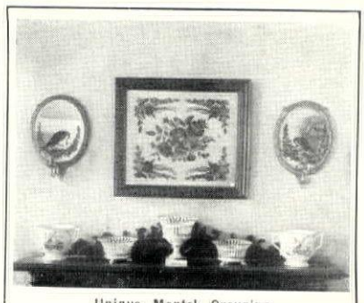
EDUCATION of the public to a fuller and more intelligent appreciation of *L'Art Moderne* is the avowed aim of the decoration firm of L'Elan. Working as a sculptor works in fine marble, L'Elan craftsmen have made the texture and character of precious woods an integral part of the ultimate effect of each creation. Thus any superficial decoration becomes not only unnecessary, but out of place. "Monel," an extremely durable metal much used in modern decoration, warm, deep gray in tone, is used in conjunction with the wood. When fabrics are employed, particular stress is laid upon the harmonious relation of their color and texture to the woods with which they are used. In a delightful small bar to be seen at this establishment, the walls are paneled in Mexican mahogany, their sole decoration being amusing figures carved in the wood. On the floor is a multi-colored linoleum in which green and a soft rose color predominate. The furniture, seating twelve persons, is of monel upholstered in green rep.



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Home of the Brown County Artist's Colony

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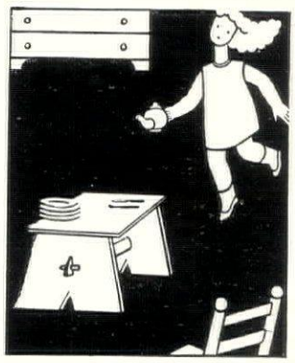

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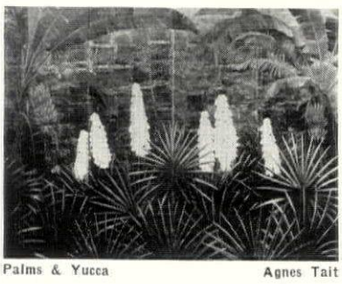
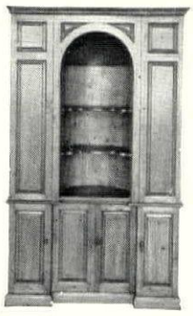


Palms & Yucca Agnes Tait

MODERN INTERIORS
DECORATIVE ARTS
PAINTINGS
SCULPTURE
SCREENS

106 EAST 57TH ST., NEW YORK



THE BARCLAY

Rarely if ever does one find a cabinet as lovely as THE BARCLAY. One can scarcely describe the mellow pieced shell shaped recess in the upper section or the paneling of the cupboards and mouldings

The Tree of Life

Promising all things to all men is suggested in THE CARCASSONNE, a chintz or linen fabric by Paul Dumas, Paris. Of exotic design and rich coloring, the turning boughs and fanciful blooms incorporate one's dream of a Persian garden. On backgrounds of beige, natteer, crème, parchment or nuit. Price $1.65 a yard chintz; $2.55 linen.

A Magic Island

In Lake Maggiore, Italy, lends its name and beauty to the lovely scenic wall paper ISOLA BELLA by Zuber & Cie, Alsace. This paper brings into a room the delicate coloring and exquisite grace of semi-tropical plants and flowers.

Illustrations upon request. Can be ordered through your local Decorator or direct from

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Sole American Agents for ZUBER & CIE, ALSACE, *and* PAUL DUMAS, *Paris*

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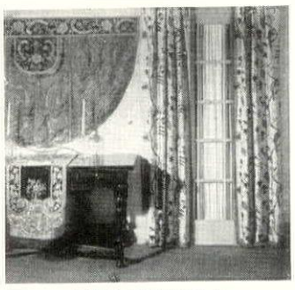

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Also Table Runners, Piano Scarfs, Wall Hangings and Banners.

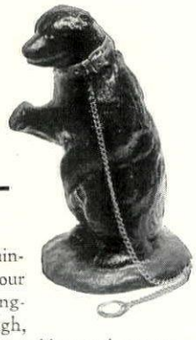
Write us your requirements. Sketches and approximate estimates submitted.

Decorative Needlecraft Studio
111 West 27th Street, New York
(LAckawanna 4-5070)

IT is interesting to compare the sophisticated simplicity found in modern furniture with the naïve simplicity revealed in so much peasant art. A certain basic honesty seems to be common to both. At the "Peasant Village," the imaginative shop of Mitteldorfer Straus, there is a host of fascinating examples of peasant handicraft of all lands. This firm at present is specializing in French provincial furniture and unusually attractive is a group of chairs in this style, as well as a new chaise longue. This latter piece, developed from the traditional ladderback, rush-bottom chair is graceful and extremely comfortable.

IN SEARCH of interesting pieces to meet the growing demand for unfinished furniture and, consequently, for more individuality in decoration, we visited several shops specializing in this type. In a number of places we noted with interest that the demand for what is popularly termed

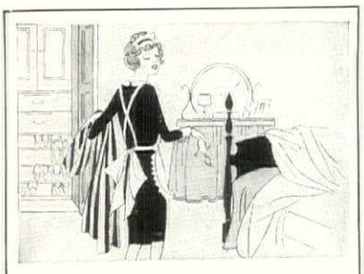
To hold your door—



THIS bear, trained to keep your doors from banging, is 11" high, of hard brown rubber and cannot scratch your floors. Check with order, postage prepaid in U. S. A. $5.50.

We have hundreds of things for house or garden. Write us about what you want, and photographs and prices will be sent.

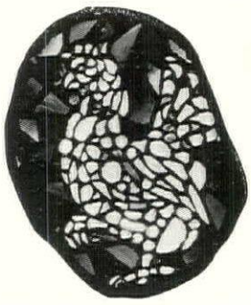
MALCOLM'S
Unusual Decorations for the House and Garden
524 No. Charles Street, Baltimore, Md.



WONDERFUL to see what change takes place in ordinary closets when tailored by Aguilar. Closets for apparel, linens, or a perfect jewel of a private bar, designed and built in our own factory.

Paneled Rooms in Pine and Oak

AGUILAR TAILORED CLOSETS
572 PARK AVENUE at 63rd ST.
Regent 6347-8



Sandwich Glass in Medallions

Sandwich Glass is proverbial for its brilliance and clarity, but its variety and purity of color are little known.

A happy quality—often overlooked—has been captured in jewelled clusters of fragments that rival the old French glass in beauty and charm. They range in price from eight to two hundred dollars, and some of them can be sent on approval. They are designed and made by

Charles J. Connick
Nine Harcourt Street, Boston

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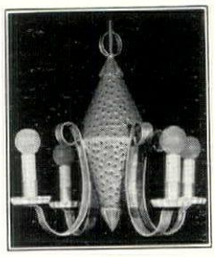

A decorative keynote for tasteful homes is found in this chandelier of early New England influence. The pierced centerpiece is reminiscent of lanterns used at the time of Paul Revere.

Fashioned entirely by hand after the methods of the old craftsmen, this fixture has an undeniable appeal in the present machine age.

Pewter, brass, copper and tin provide a choice of metals to harmonize with any furnishings. Available with or without electric attachments at reasonable prices.

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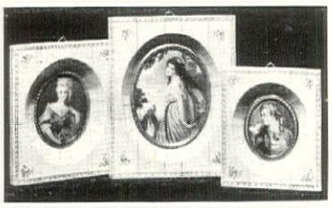
dainty ivory miniatures



hand-painted in delicate pastels on ivory, these are framed in mellow-toned, old ivory piano keys. in pairs or singly they are exquisite accents for 18th century or victorian interiors. left to right, 6.00, 9.50, 4.75 each. many others are shown in our catalog.

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and
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20%

Eight Mantels made to Standard Sizes at Special Prices

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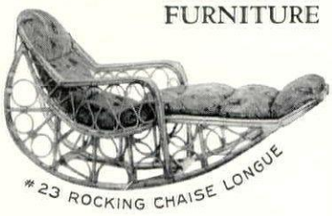

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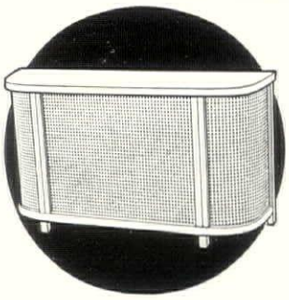

BEAUTIFY THE SPOT
occupied by the discordant radiator with a
TUTTLE & BAILEY
RADIATOR CABINET

Write—phone—or call for descriptive literature

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"modern" furniture is increasing. Most of the furniture which has been made to order within the last few months by the Pembroke Company has been of this type. Hearthstone has designed a small-scale dining suite, in accordance with this tendency, expressly for the small modern apartment. The feature of this group is the table's folding top by which its size may be increased from 32″ x 36″ to 64″ x 36″. This top comes in a variety of wood combinations, or in bakelite. The classification of the woods used runs the gamut from the familiar mahogany, walnut and maple to such pleasantly suggestive names as holly, amaranth, palisander or macassar. The base of the table and the framework of the chairs are of duraluminum and may be had plated in chromium, silver, brass or copper. At the Campbell Shops, we found a number of excellent reproductions of period pieces, of which beds and bedroom furniture form the major part of the selection.

¶ Decorative pottery of high-fired, beautiful Terra Cotta will add grace and color to your garden, sun-room and porch.
Send 10c in stamps for catalog.

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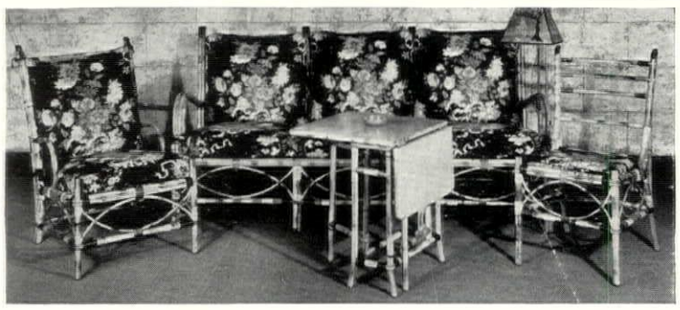

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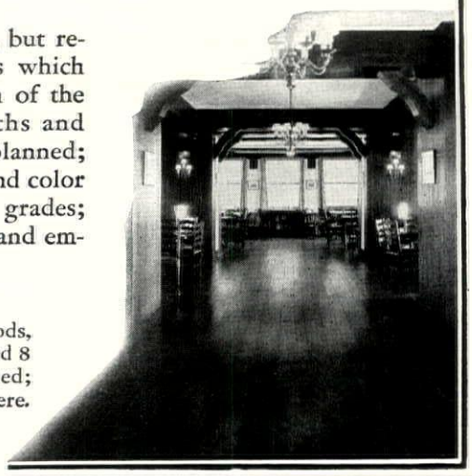

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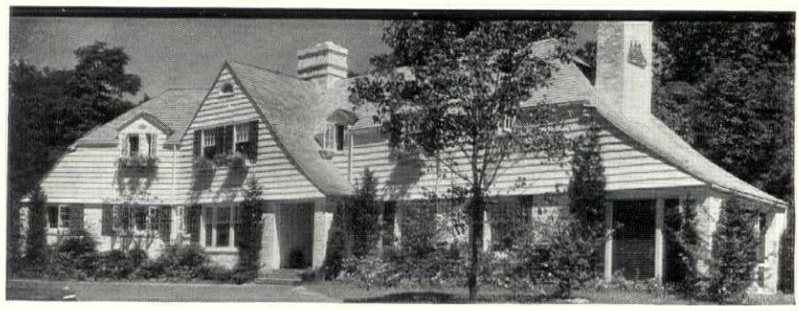

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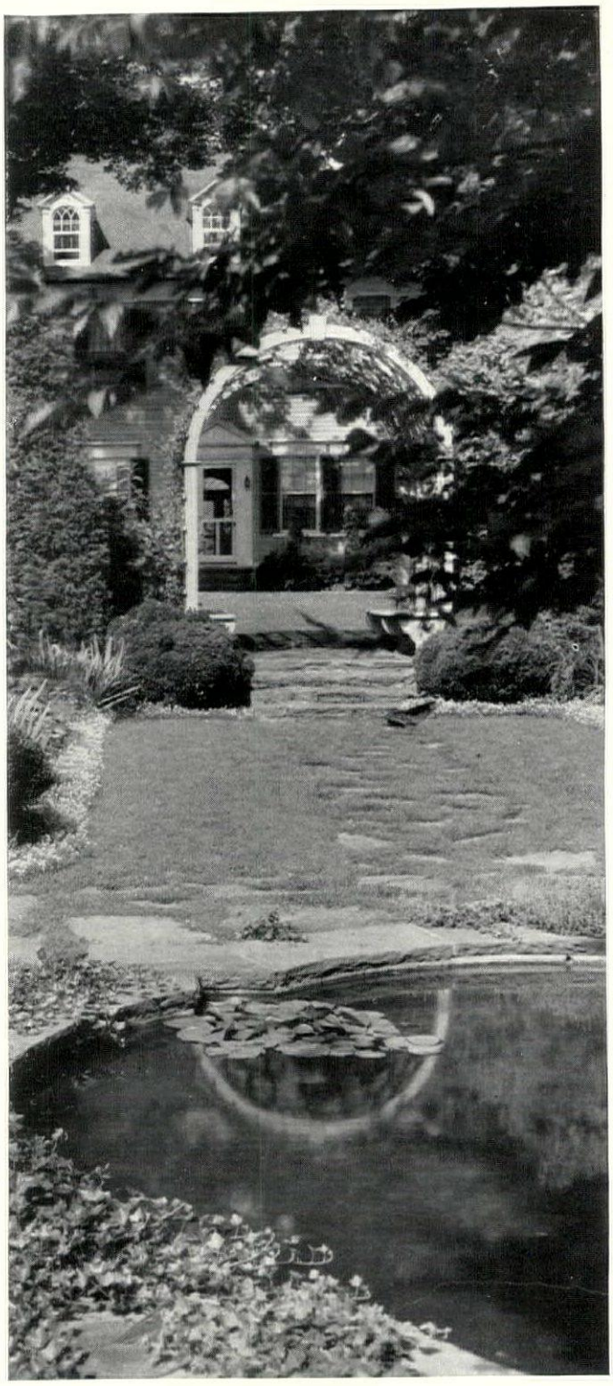

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Luxuriantly soft in finish . . . deep in texture . . . Martex towels keep their fluffy loveliness long after lower quality towels have been forgotten. The exclusive Martex underweave is so close, so firm, that Martex towels seem almost never to wear out, no matter how often they go to the laundry.

And Martex towels are as smart . . . chic . . . new as they are long lasting. Designed by leading artists and decorators, they offer one of the most effective ways of introducing modern color into your bathroom without great expense. In Martex you may have towels, bath mats, wash cloths and shower curtains, too, *in colors and designs to match*—another exclusive Martex feature. At all leading shops and department stores.

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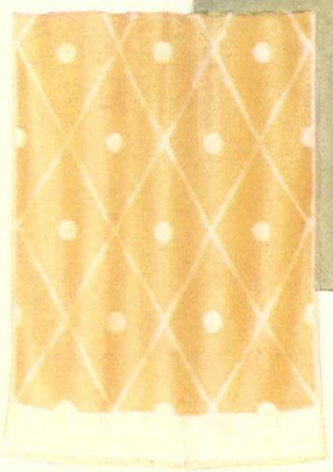
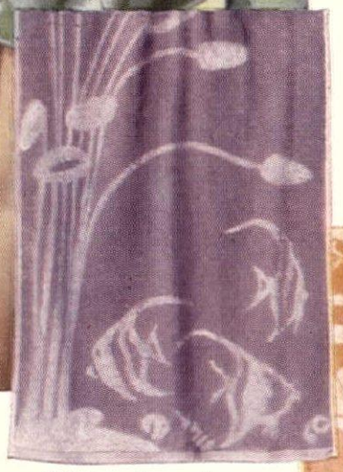
Bubbles, the newest, and, some say, the loveliest Martex pattern, is shown at the right. To be had in towels, wash cloths, bath mats and shower curtains, in a variety of the newest pastel shades.

Underweave of ordinary Turkish towel (somewhat magnified) is loose, open and weak.

Underweave of Martex towel (equally magnified) is close, strong and durable.



Drums—distinctive and very modern, without being bizarre.



Catalina—above—gives you a smart aquatic motif.

All Martex towels shown here may be had in Nile green, peach, azure blue, orchid, jonquil yellow and apple blossom pink.

Waterlily—a pastel flower pattern of unusual charm.

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The new Pierce-Arrows are very beautiful—and, if possible, more than ever in the patrician manner. The interiors are notable for new spaciousness, new loveliness. And added appointments further contribute to the Pierce-Arrow fame for surpassing luxury.

A deeper radiator lends fresh distinction to the famed contour of today's Pierce-Arrow front. New body and fender lines intensify the familiar suggestion of winged fleetness. Doors are wider, body panels lower, running boards of improved construction.

There are elements of added greatness, as well, under each new hood and in every chassis: Measurably increased power, for example . . . new devices for the absorption of road shocks, increased ease of handling, silencing of carburetors . . . not to mention the almost magical ease and quiet and security of the various controls. As always, in short, "*Pierce-Arrow mechanical detail embraces every device of proved character known to engineering of fine motor cars.*"

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as much lower as

$810

Following are listed a few of the new models, showing some of today's prices compared with those of 1930:

NEW GROUP B

125 Horsepower . . . 134- and 137-inch Wheelbases

	Previous Models	New Models
5-passenger Sedan	$3495	$2685
5-passenger Club Sedan	3495	2785
7-passenger Sedan	3625	2995
7-passenger Enclosed Drive Limousine	3825	3145

NEW GROUP A

132 Horsepower . . . 142-inch Wheelbase

	Previous Models	New Models
7-passenger Sedan	$4485	$3825
7-passenger Enclosed Drive Limousine	4685	3995
4-passenger Convertible Coupe	3975	3650

In addition to the standard models, Pierce-Arrow announces a complete new line of *Salon Models:* Here is America's finest motor car in its most luxurious expressions . . . Pierce-Arrow at its patrician best, augmented by the most distinguished efforts of famed Custom body-builders. The following are representative values:

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132 Horsepower . . . 147-inch Wheelbase

4-passenger Convertible Coupe	$4275
7-passenger Sedan	4785
7-passenger Enclosed Drive Limousine	4985
Formal Town Car	6250

(Other Special Custom-built Models up to $10,000)

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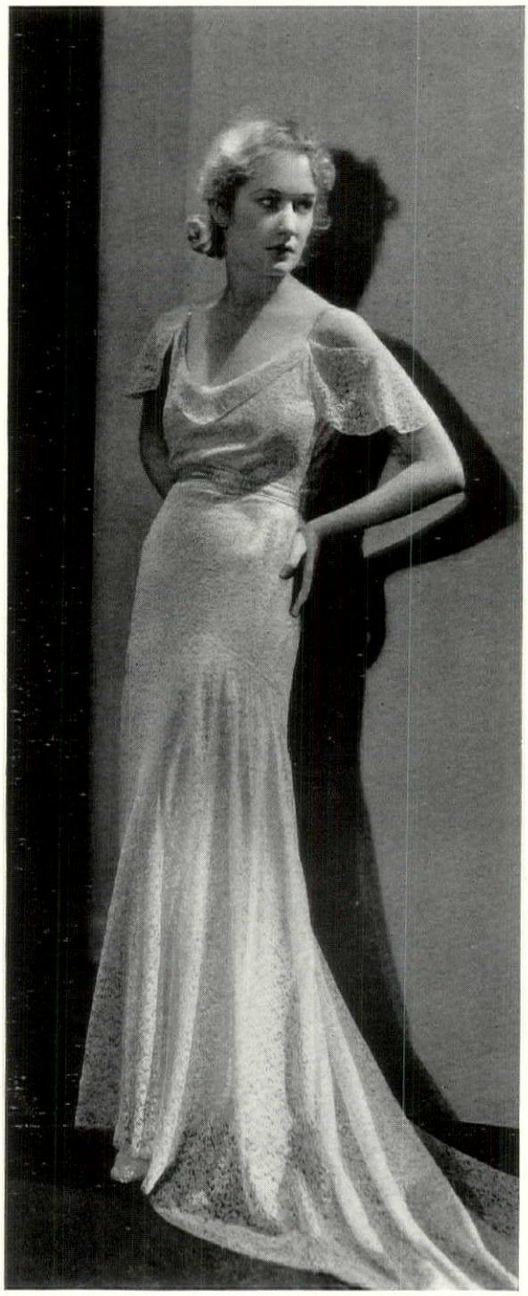

Dead-white lace is a wise investment, for it is lovely in any season, and strikingly smart in this one. In a frock made over a silver slip, like this graceful model, it acquires a new and dramatic quality.

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But wise spending is an art. It means knowledge and judgment and experience. It's an art that should be cultivated—this year, more than ever before. Yet few women have the time to study it, in all its many, changing aspects. Most women need a guide-book to help them follow the newest trends of good taste.

That's why the wealthy and influential women of the cosmopolitan cities read Vogue. They find it a short cut to intelligent purchasing. Through Vogue, they know, without endless searching, what clothes reflect authentic fashions that will be chic for months to come. Through Vogue, they know what costumes they will need for their particular activities, what they can do without. Through Vogue, they learn what to buy for their houses, and where to buy it . . . how to spend their money most profitably in a hundred and one ways that have to do with the fine art of living.

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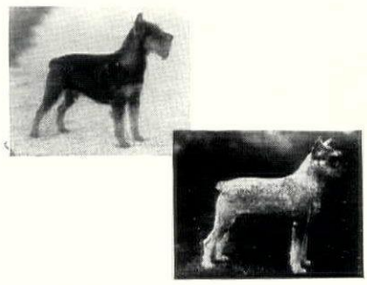

AND NOW THE SCHNAUZERS

Robert S. Lemmon

SOME ten years or so ago there burst upon the American canine stage (perhaps "sprang" would be a better word, in view of the character in question) an unheralded but amazingly capable dog whose name sounded like a cross between a sneeze and a growl. He wasn't new, except to us on this side of the Atlantic, for there is good reason to believe that in his native Germany he was known long, long ago, but that had nothing to do with his acceptation by the American public. Almost over night, it seemed, this newcomer that was introduced to us as the Schnauzer became the last word in canine style. If you'd tried you couldn't have put even a slight damper on the flame of his popularity.

As a matter of fact, I can't imagine why anyone would have wanted to check the progress of this wire-haired German Terrier (that is about what he is, when all's said and done). For his are the qualities which innumerable thousands of Americans like their dogs to have: activity, courage, brains, strength and an up-and-coming appearance no less pronounced than the activity of his nature.

Like so many other breeds, the Schnauzer's exact origin is a bit uncertain. The first one I examined left me with the distinct impression that there was Bullterrier blood somewhere in his family tree, so suggestive of that grand breed were the breadth of his skull and the almost wedge-shaped lines of his head as it appeared from above. But the eyes belied that, and so did the sharpness of the "stop" which marked

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the division between forehead and muzzle. Noting them, I began to flounder and have been at it ever since. So, perhaps, have the experts on the breed, if the truth were known. But that doesn't make any difference anyway, just so long as we have the Schnauzer in all his unique and sterling worth, for present character is what really counts.

There are three breeds of Schnauzer—or, rather, three varieties. First and largest is the Riesenschnauzer or Giant, a powerful fellow that measures from 22″ to 26″ high at the shoulder and is ideally fitted for police work and home protection. Then comes the medium type to which most of the dogs in this country belong—from 16″ to 20″ at the shoulder. And lastly, that vehement little bundle of energetic fire, the Toy or Miniature Schnauzer, whose height is supposed not to exceed 13½″ but upon the length, breadth or thickness of whose spirit no man has yet been able to decree a limit. The distinguishing points, other than size, are similar in all these three types. Some of them might be set down as follows:

The rough, harsh and splendidly protective coat of iron-gray, grayish blue, pepper-and-salt or occasionally black has the decided advantage of never being in need of trimming; a good daily session with brush and comb will keep it in condition at all times. It covers a thickset, powerful body with strong bones and fine chest development. A straight, firm back, straight and muscular legs of good length and compact feet combine to impress one with the fact that here is a dog of marked agility and alertness. His eyes are dark, of fair size and remarkably expressive. When he is angry they almost literally blaze, but in his quiet moods they gaze full and open, confident, self-respecting and trustworthy.

All in all, the Schnauzer is a dog for those who haven't much patience with canine mollycoddles. He may not be an Adonis in looks, but he does possess fidelity, quick wits and adaptability to any occasion which may arise. Not too large for the house, yet husky enough for outdoor life, he fits a wide range of American family requirements.

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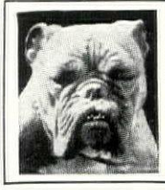

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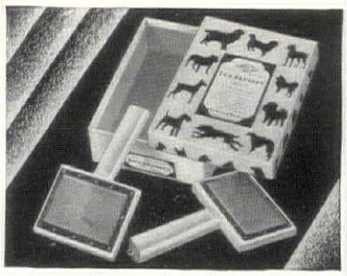

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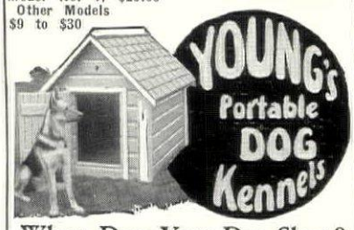

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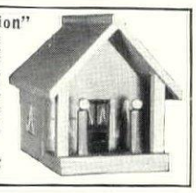

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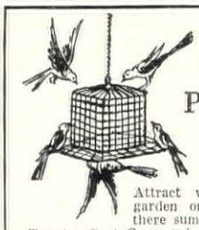

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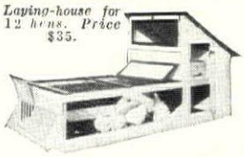

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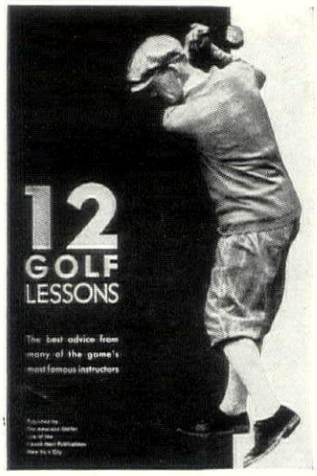

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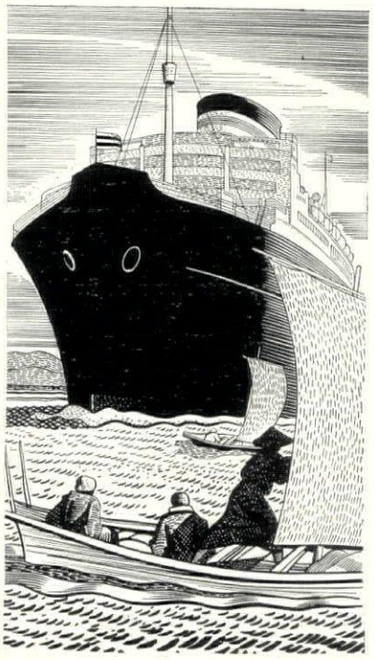

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(SPACE FOR THE INDIVIDUAL PASSENGER)

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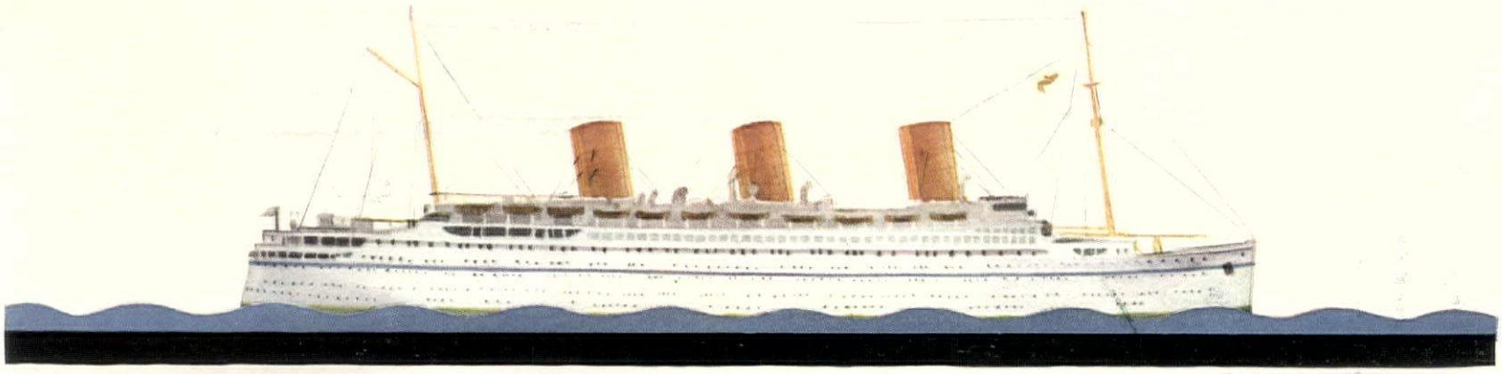
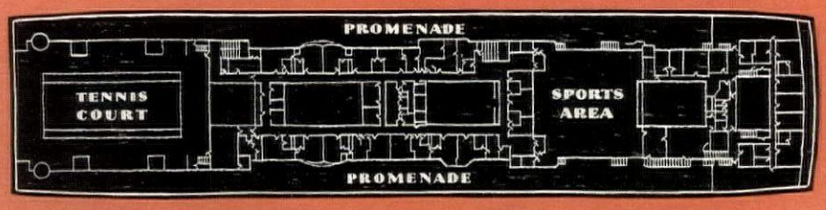
ST. LAWRENCE . . CANADIAN PACIFIC

THE SHORTER SEAWAY TO . . . FROM

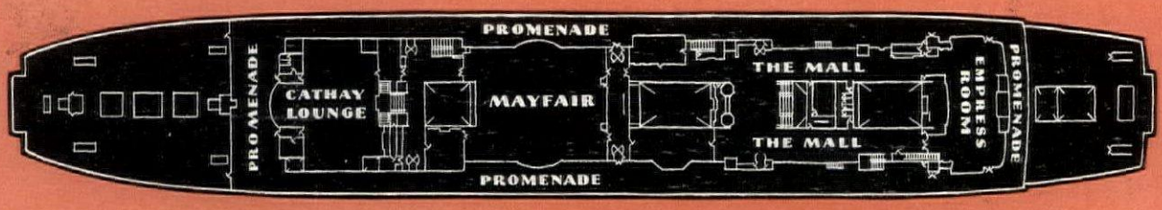
EUROPE



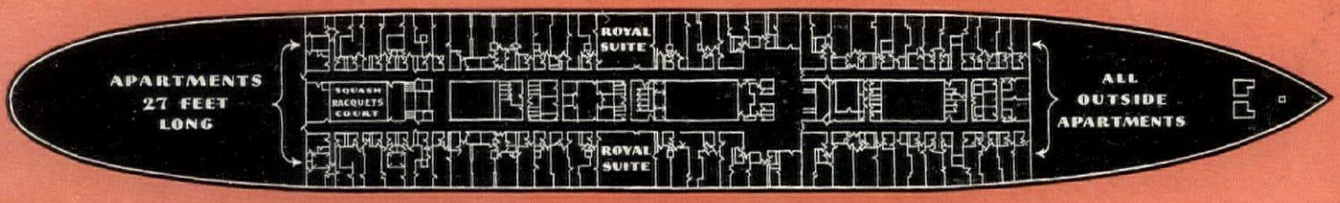
Empress of Britain *and* **3** *of her* **9** *decks*



Sports Deck



Lounge Deck



Apartment Deck A

ON THE SUN DECK, *you start your tan. On the Sports Deck, you play real tennis or look on from court-side café. On the Lounge Deck, devoted to social amusements, you dance, play bridge, read, or chat in a series of brilliant metropolitan club-rooms designed by Sir John Lavery {Empress Room}, Sir Charles Allom {Mayfair}, Edmund Dulac {Cathay Lounge}, Heath Robinson {Knickerbocker Bar} . . . or join the strollers on the long Mall. For the squash-racquets court, the gymnasium, and the Olympian Pool and café you descend to other decks . . . and you dine in the Salle Jacques Cartier under Frank Brangwyn's magnificent murals of plenty.*

Empress of Britain

5 DAYS TO EUROPE

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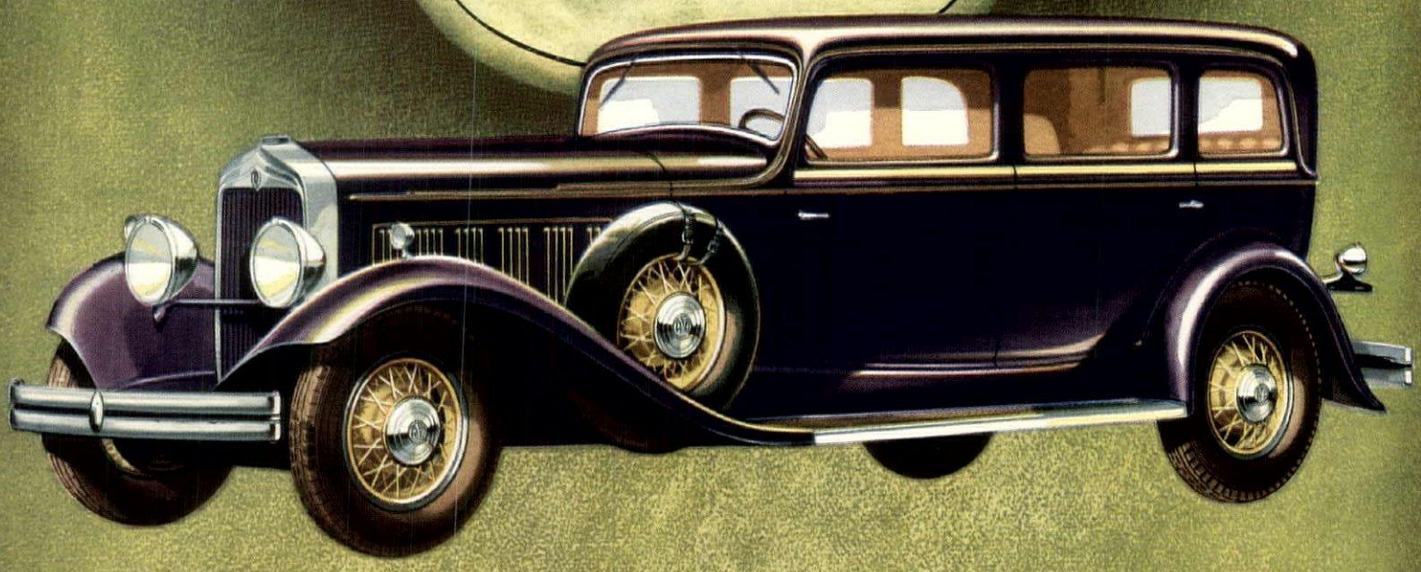
FLYING CLOUDS

An Eight and a Six



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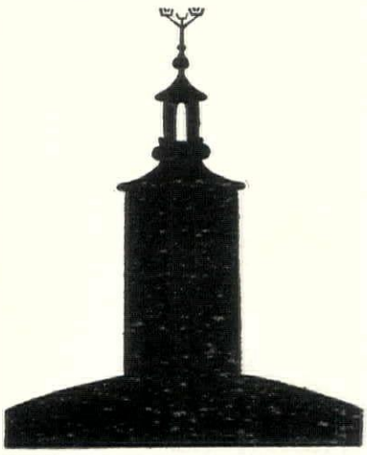

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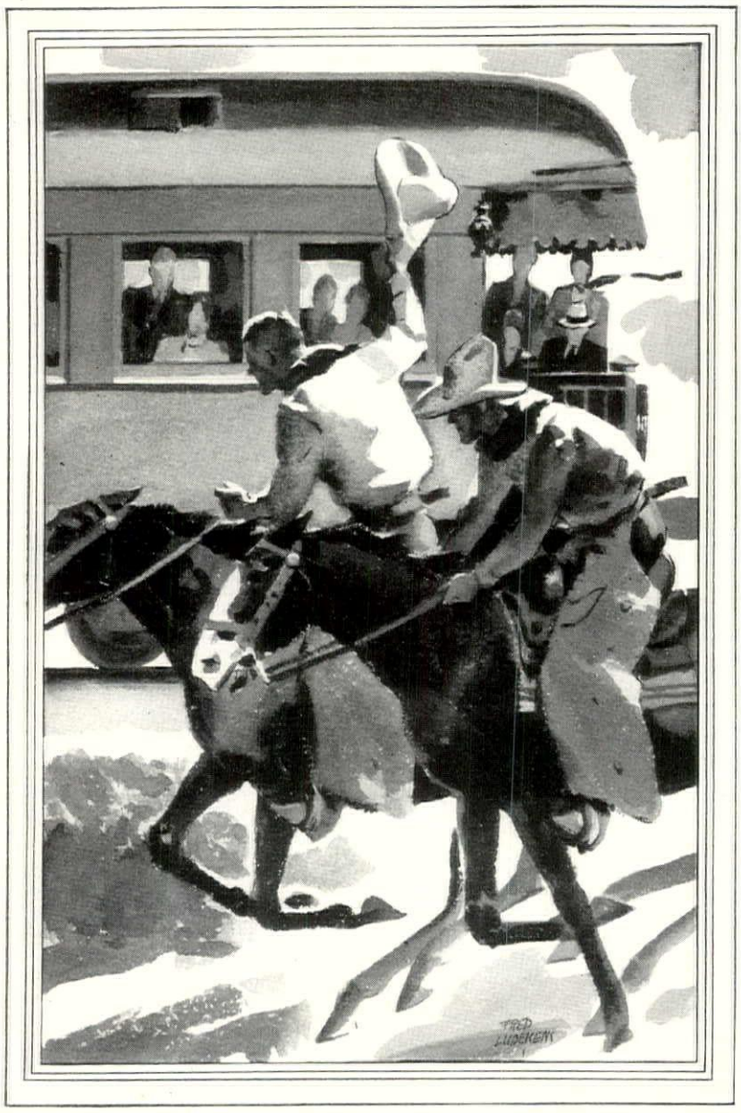
SWEDEN



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From the North and East they come to board this colorful train with its cosmopolitan personality borrowed from every place it serves. New Orleans has given her southern hospitality and a Creole dish or two. El Paso, the feel of Old World Mexico just across the border. Tucson and Phoenix in Southern Arizona have added a thrilling Apache strain . . . and Los Angeles, San Francisco—all California, the warm friendliness of the newer West.

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On Spacious SUN DECK at The Pioneer

Chess in the PALM PATIO at Westward Ho

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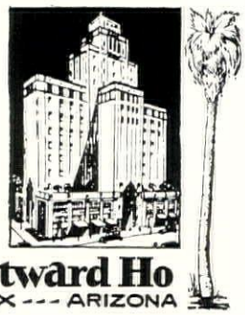
This winter take a holiday in Arizona sunshine . . . you'll enjoy this smart, novel playground where the New West is encompassed by the Old. It's really not far by plane, train, or highway to this land of vivid contrasts . . . this land of awe-inspiring colorfulness.

These hotels . . . companions in service to Blizzard-Weary sojourners from the North and East . . . offer every urbane comfort, are the hub of social and sport activities and will serve admirably as your winter home in Arizona.

Leave cold, dark, dreary days behind. Come for healthful, delightful fun and relaxation. Literature and rates sent promptly if you wire or write to either hotel.



The Pioneer
TUCSON --- ARIZONA
Geo. H. Benefiel, *Manager*

Westward Ho
PHOENIX --- ARIZONA

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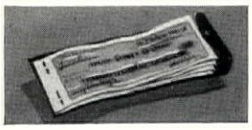

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For reservations apply to the Manager, Log Chateau, Lucerne-in-Quebec, Canada.

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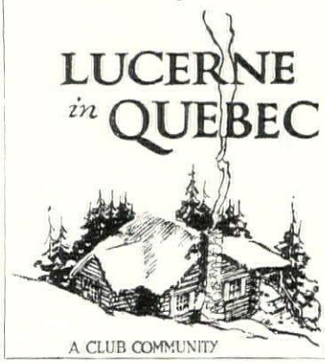
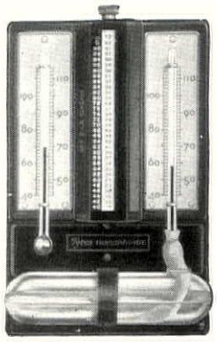


A CLUB COMMUNITY LQ42

How Dry is Your Home?



Do you cough your way through winter? Do you suffer innumerable colds? Do you shiver in temperatures that should be comfortable? If you do, it's a sure sign that the air in your home is too dry. Health authorities agree that moisture should be in the air in sufficient quantities. The way to tell the actual conditions is with a

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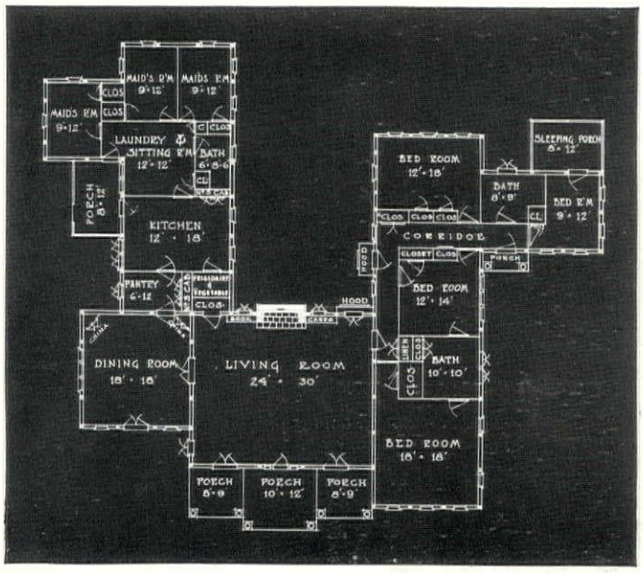

This is a floor-plan of the Hodgson House illustrated. A full-size house, furnished, is on display at our New York exhibit, 730 Fifth Ave. at 57th St. Similar exhibit, 1108 Commonwealth Ave., Boston. Outdoor exhibits at Sudbury and Dover, Mass.

HODGSON HOUSES

• R E A L E S T A T E •

If the property you want to sell, or lease, is the kind of property that would appeal to the discriminating taste of the readers of House & Garden, then obviously, the place to advertise it is in these pages, where it will meet the eyes of thousands of prospects who will appreciate its fineness. Advertising rates will be furnished you, or your agent, promptly upon application to House & Garden, 1930 Graybar Bldg., Lexington at 43rd, New York City.

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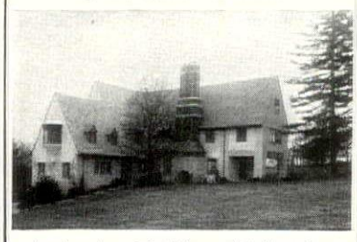
WESTCHESTER

SCARSDALE



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If you couldn't live up to such sophistication, you might try an Irishman who thinks the world is just one cat . . . or a Spaniel with the eyes of St. Cecilia and ringlets on his ears. . . . The point is, scan pages 27-29 for a dog.

House & Garden has investigated all the advertisers represented on these pages, and recommends them to you. These are reliable breeders, who can help you in the selection of a good dog. If you wish specific information in regard to breeds of dogs and kennels, or advice on the care of your dog, The Dog Mart will be glad to answer your questions without charge.

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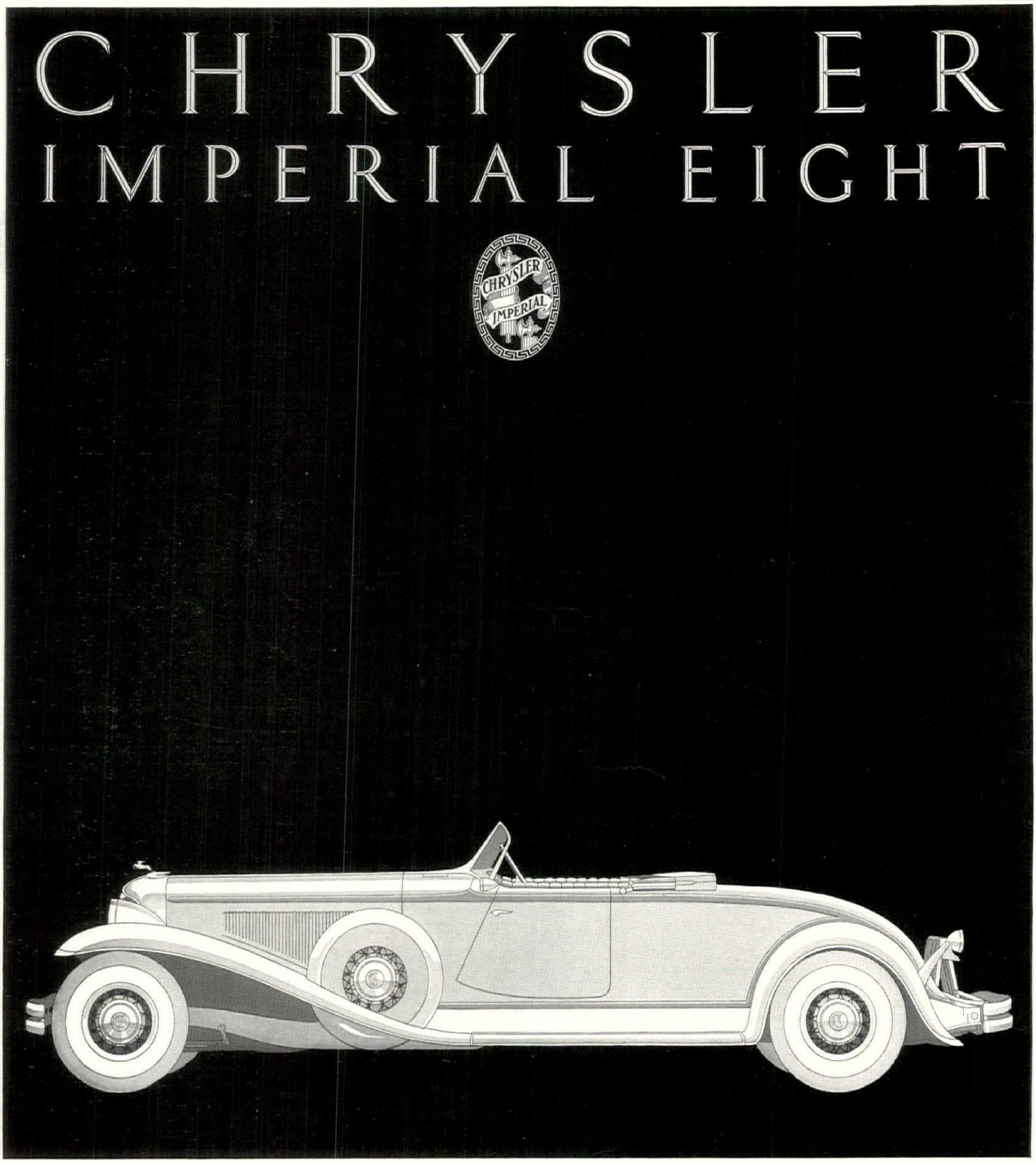

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February 1931

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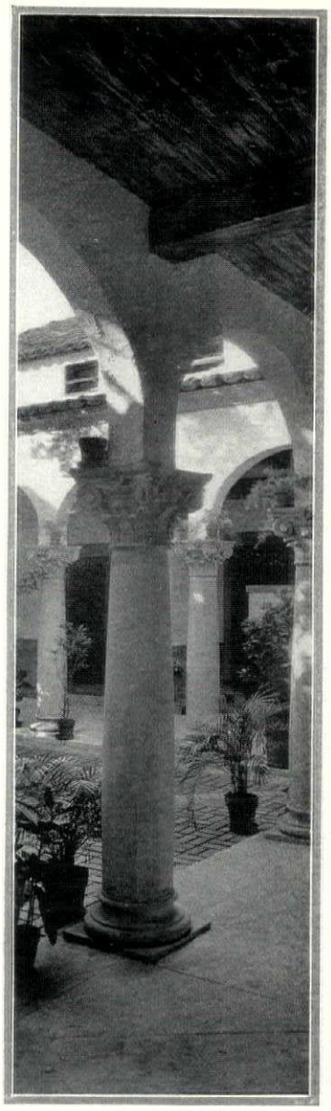
THE GARDENER'S CALENDAR 96



EVER since the day when humor first became a profession, jokesters have been rehashing the old quip about the husband whose wife was forever shifting the furniture. So threadbare have they worn it that even an undiscerning eye can begin to see the warp of sound reason which underlies the seeming silliness of the habit.

For moving the furniture is no more than manifestation of a normal human antipathy to sameness. Nothing in Nature remains everlastingly unchanged; why, then, should Man's abode fall into the rut of that condition? The periodical rearrangement, whether it takes the form of new furnishings or a fresh shuffle of the old, is really wisdom in disguise.

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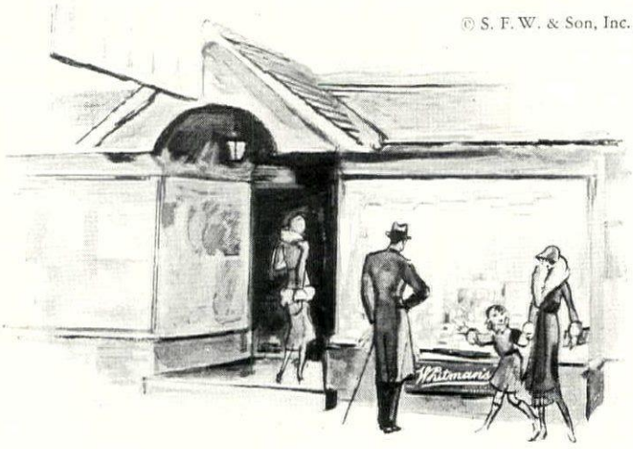


The BULLETIN BOARD

FROM THE SIAMESE. They tell of a famous New York decorator who was discovered one day transfixed before a garbage bucket on a side street—transfixed with ecstasy. From that lowly utensil and its contents she composed the color scheme for a room. It was a pale blue bucket and from it protruded the green and pink and black seeds of a watermelon rind.

Another decorator is now creating a room around her Siamese cat—beige walls shaded to brown at the base, from the cat's coat; seal brown rug from its paws and ears; aquamarine blue curtains from its eyes; the furniture is to be upholstered in tones of brown and beige.

EXCELSIOR. The authorities seem to be divided on the source of the word "Excelsior" as applied to shredded wood. From one we find it as follows—that the representative of a factory in Maine showed these wood shavings to a Mr. Glover, member of Manning, Glover & Co., Boston dealers in bedding and upholstery supplies. The product hadn't a name. Mr. Glover, having attended a concert the previous evening at which he heard Longfellow's "Excelsior" recited for the first time, suggested it be called after the poem. Poplar wood was first used.

One well-known antiquarian claims that the name came from the Excelsior Mills located in the Arkansas Mountains, of which a John Twomley was owner. He made axe, hammer and flail handles and from the butts of wood remaining turned out wide shavings. These were thrown into a machine and torn to shreds and the product was shipped to St. Louis in bales, to be used for packing. This was in the early 50's.

ABOVE OMAR KHAYAM. When Omar Khayam sang, "Alas that spring should perish with the Rose," he managed to tell us something about the Persian climate, for after spring the weather becomes torrid and most of the country is burned dry. Spring, then, was and is a very precious season to the Persians. Of course Roses grow on the poet's grave. They have been identified as *Rosa centifolia*, one of the parents of our Moss and Cabbage Roses.

BACKGAMMON TO WIN. This is the title, *Backgammon to Win*, of *Vanity Fair's* guide to our latest indoor sport. Its author is Georges Mabardi, an Egyptian, born in Alexandria and educated at the Sorbonne. He has been playing Backgammon since childhood and is considered the most informed, scientific and sound exponent of the game. The book includes twenty-seven diagrams in color, and has two chapters by Clare B. Brokaw, associate editor of *Vanity Fair*.

PRIMROSES

THE scent of primroses
In the woods, by the sea
In Ireland
Is the most fine insidious thing.
It is blent of sea tang
And sea spray,
Of frost and the rustling
Dark heather—
Of the bite of the new grass
And the earth's pulse.
Innocent yet subtle,
It is the breath of Spring;
More than breath,
The very impalpable essence,
The heart's blood of beauty.—

—DOROTHEA DONN-BYRNE

CHINESE PLANTS TO CHINA. Around the figure of "Chinese" Wilson the legends already are growing thick, but the pleasantest we have heard is that China is desirous of having a great botanical garden and in order to stock it properly has sent to the Arnold Arboretum in Boston for plants discovered in China by Mr. Wilson.

It is also diverting to learn that the American Rose Society has sent to the newly-crowned king of Abyssinia a Rose garden. Though His Majesty's domain lies on the equator, his capital is in the mountains where a moderate climate makes for good Rose growing.

MODERNISM AND SING SING. Though our acquaintance with prisons in general and Sing Sing in particular is very limited, yet we never see photographs of new German modernist apartments and workingmen's houses without thinking of jails. Something about the uniformity, the stern utilitarian ranges of galleries and porches is disagreeably reminiscent of a cell block. To these we prefer the English laborer's cottage and his little dooryard garden and the garden cities that have sprung up in England.

DARK BACKGROUNDS. It may come as a surprise to some that several decorators today are using dark backgrounds in rooms. Of course the room paneled in pine or oak is relatively dark and has always found popular acceptance. This use of dark painted walls, however, is new. Its appearance may be explained by two reasons—that decorators have tired of creating rooms with light walls and that furniture is not so prominent against a dark wall. The piece that is not so good fades into the dark background, whereas against a light wall its defects are glaring.

TOWELS AND MINOR PROPHETS. We made a bad blunder the other day: we referred to a towel as a Habbakuk, whereas we meant Huckaback. This mistaking a minor prophet for an old-fashioned towel sent us chasing the name. Huckaback is a form of weaving whereby in the heddling or stringing of the loom, two double threads were put together with five or six singles between. In the passing of the shuttle, the double threads were depressed so that the shuttle made a raised space without a knot—really a small fold. This made a rough weave that served excellently for toweling. These goods were hawked about the country. The toweling takes its name from a Perthshire word meaning an itinerant vendor.

NECROLOGY. To the list of splendid gardeners whose voices we shall hear no more, we regretfully add the names of Frederick L. Atkins and Jean S. C. Forestier. Mr. Atkins, apart from his connection with a great nursery firm, served the cause of gardens long and well. He had been President of the American Rose Society and at the time of his death was President of the American Horticultural Society. M. Forestier, who occasionally contributed to the pages of House & Garden, was one of the greatest landscape architects of France. His work in the parks of Paris and his later creation of gardens in the south of France, in Cuba and South America brought him international fame. He was author of *Jardins*, a book of garden designs.

ANGELICA KAUFFMANN. The credit for being the original woman decorator would doubtless go to Angelica Kauffmann (1741-1807). Her career in that line began in 1766, when she arrived in London, made an immediate name for herself, was received at Court, attracted the adulation of such men as Garrick, Goldsmith and Sir Joshua Reynolds and helped found the Royal Academy. It seems that her life was embittered by her marriage. In that, too, she seems to set the pace. Alas, the beginnings of all too many excellent decorators seem to start that way. Among students of furniture she is remembered for her painted panels.

BOOKS ON ENGLISH FURNITURE. Since the books on this subject are as the sands of the sea, we have selected only twenty-one titles. Having studied these, the reader should command a comprehensive view of English Furniture: *An Encyclopaedia of English Furniture*, Oliver Brackett; *Jacobean Furniture*, Helen Churchill Candee; *English Furniture of the 18th Century*, Herbert Cescinsky; *Early English Furniture*, H. Cescinsky and E. R. Gribble; *Furniture Designs*, Thomas Chippendale; *The Gentleman and Cabinet-Maker's Director*, Thomas Chippendale; *The Chippendale Period*, C. K. Warren; *English Furniture and Furniture Makers of the 18th Century*, R. S. Clouston; *The Practical Book of Period Furniture*, Eberlein & McClure; *Old English Furniture*, J. T. Garside; *Chats on Cottage and Farmhouse Furniture*, A. Hayden; *The Cabinet-Maker and Upholsterer's Guide*, A. Hepplewhite; *English Decoration and Furniture of the Early Renaissance*, M. Jourdain; *English Decoration and Furniture of the Later 18th Century*, M. Jourdain; *The Decoration and Furniture of English Mansions*, Francis Lenygon; *Furniture in England from 1660 to 1760*, Francis Lenygon; *A History of English Furniture*, Percy Macquoid; *The Dictionary of English Furniture*, Percy Macquoid and Ralph Edwards; *Old English Furniture and Its Surroundings*, Percival MacIver; *The Cabinet-Maker and Upholsterer's Drawing Book*, Thomas Sheraton; *Old English Walnut and Lacquer Furniture*, R. W. Symonds.

Drix Duryea

"Darkly, Deeply, Beautifully Blue"

Rich, deep blue walls are flattering to furniture and textiles. Shell pink moire curtains are particularly effective against this background, while the cream leather and deep pink chintz of chair coverings, and the cream and pink Aubusson rug, are vastly enhanced by this sapphire setting. Diane Tate and Marian Hall, decorators

Dark Backgrounds—A Dramatic Note In Decoration

Everett Gray Linsley

THERE are many deeply rooted but unfounded prejudices against dark colored walls and woodwork, most of which can be combated only with actual examples of the success of such treatment. Aside from the quiet, peaceful quality of a dark, richly toned background, a quality increasingly important in the hectic life of any city, there is the added virtue of practicality; the inevitable grime of the city serves to add, in time, a bloom which no amount of painter's antiquing can approach.

We all know the beauty of old wood paneled walls but in this era of temporary quarters, their rarity and consequent prohibitive cost make them unfeasible. Plaster walls can be amazingly grained to simulate wood paneling, but there remains always the effect of thinness, a lack of the depth inherent in wood that makes this method of treatment unsatisfactory, even barring the always legitimate objection to imitation.

What better solution then, than a frankly painted surface, giving the painter his due by letting him experiment in the production of darker, richer tones than are now customary, and enjoying the soothing result of a really dark background?

In approaching any problem of decoration there are two methods of procedure. First there is the more usual one of selecting the color scheme of background, curtains and floor coverings, with the follow-up system of furniture and incidental objects chosen with agonizing care to fill the required spaces and uses. A fairly quick method, this, capable of completion in six weeks, with luck and infinite badgering of painters and upholsterers. The results can be calculated, alas, far ahead; you know what you are getting both figuratively and actually. We know all beforehand, and therein lies the sole disadvantage. The room is comfortable and pleasing; it is standardized and innocuous; in good taste and impersonal. We can exist in it comfortably enough until we have a restless notion that perhaps if the silk window hangings were changed for more cheerful chintz the effect might be more "individual." Or we grow more completely irritated and "go modern" with great gusto.

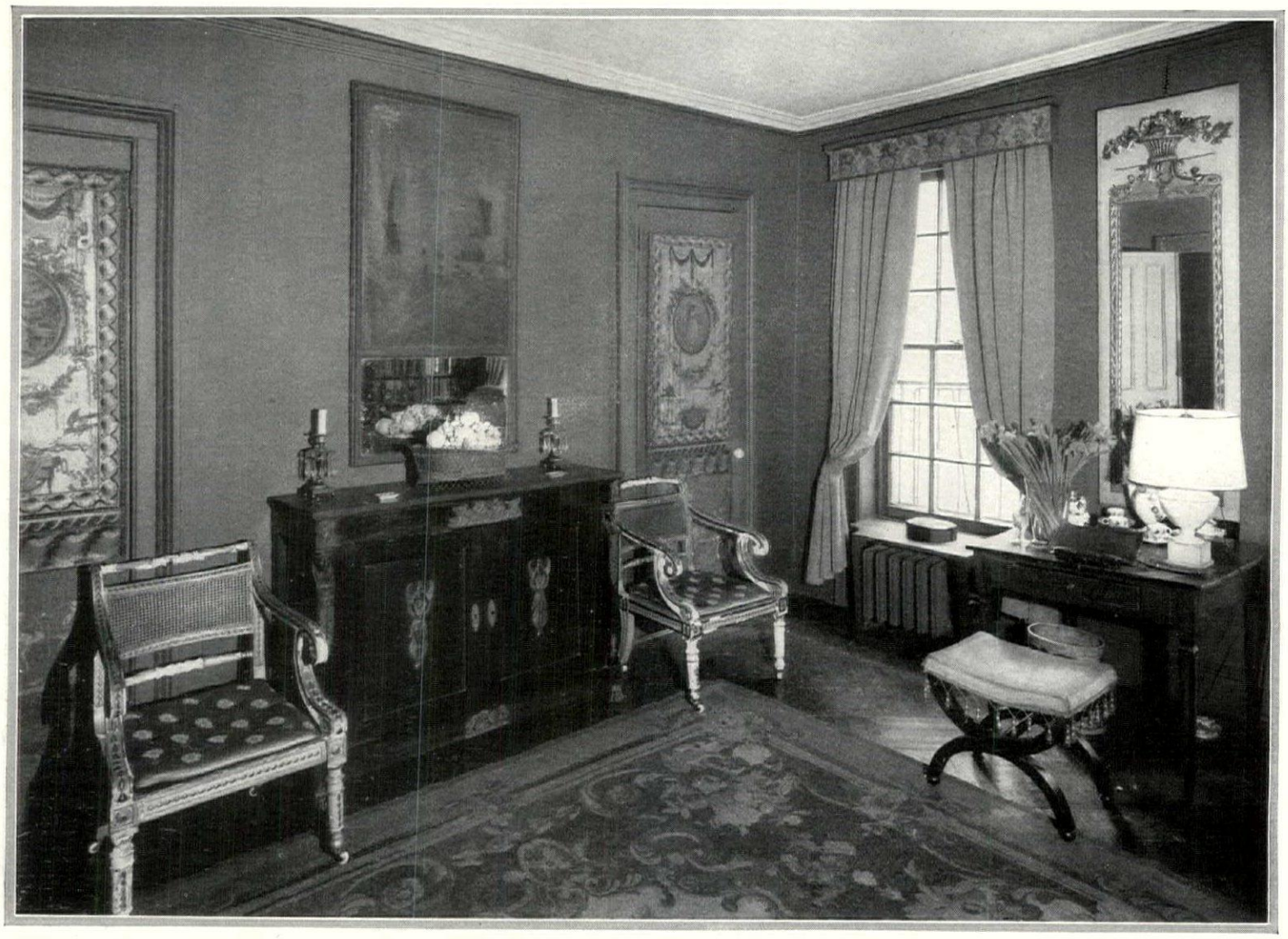
The second and less conventional course is that of arranging a room around an already acquired collection of furniture and objects which seem to fill all the requirements of comfort and utility. In this case, although the color scheme comes first, it must be governed so absolutely by the character of the existing collection that it at once takes on a secondary importance. Old furniture and ornaments with their inevitable patine demand for best effect a background as mellow as themselves. Except in the case of darkly colored pieces of impeccable line, they do very badly when silhouetted against the light-colored walls of the average apartment.

In all the rooms illustrating this article, dark walls are the outstanding feature of the decorative schemes. And in every instance the somber background is not only

Drix Duryea

SAPPHIRE BLUE

This additional view of the room shown opposite gives an excellent idea of the effectiveness of delicately colored chintzes, of gleaming gilded frames and creamy porcelain against a dark background. The sofa and chairs are pine, covered in different chintzes having a good deal of pink in the designs. As the rug and curtains are also light in tone, this room is exceptionally colorful. Diane Tate and Marian Hall, decorators



Drix Duryea

DEEP GREEN

Walls and wood trim in the room above are a deep, rich green. As a foil for Italian Empire chairs painted cream and gold, a mahogany Empire commode with ormolu mounts, and the gilded frames of mirrors and paintings, no better choice could have been made. There is no lack of life and color here, as the curtains and chair pads are brilliant yellow, the Aubusson rug, red, chartreuse and claret toned. Decorations are by Poynton

VIOLET-BROWN

A collector of old English porcelain chose violet-brown for a small sitting room, as dark walls seemed the most restful solution on account of the numerous accessories. Added to the cream, red-violet and salmon tones of the Wedgwood, Leeds and Crown Derby, old French furniture of white painted wood, yellow silk curtains and an Aubusson carpet in claret, green and cream are greatly benefited by this background. Poynton, decorators

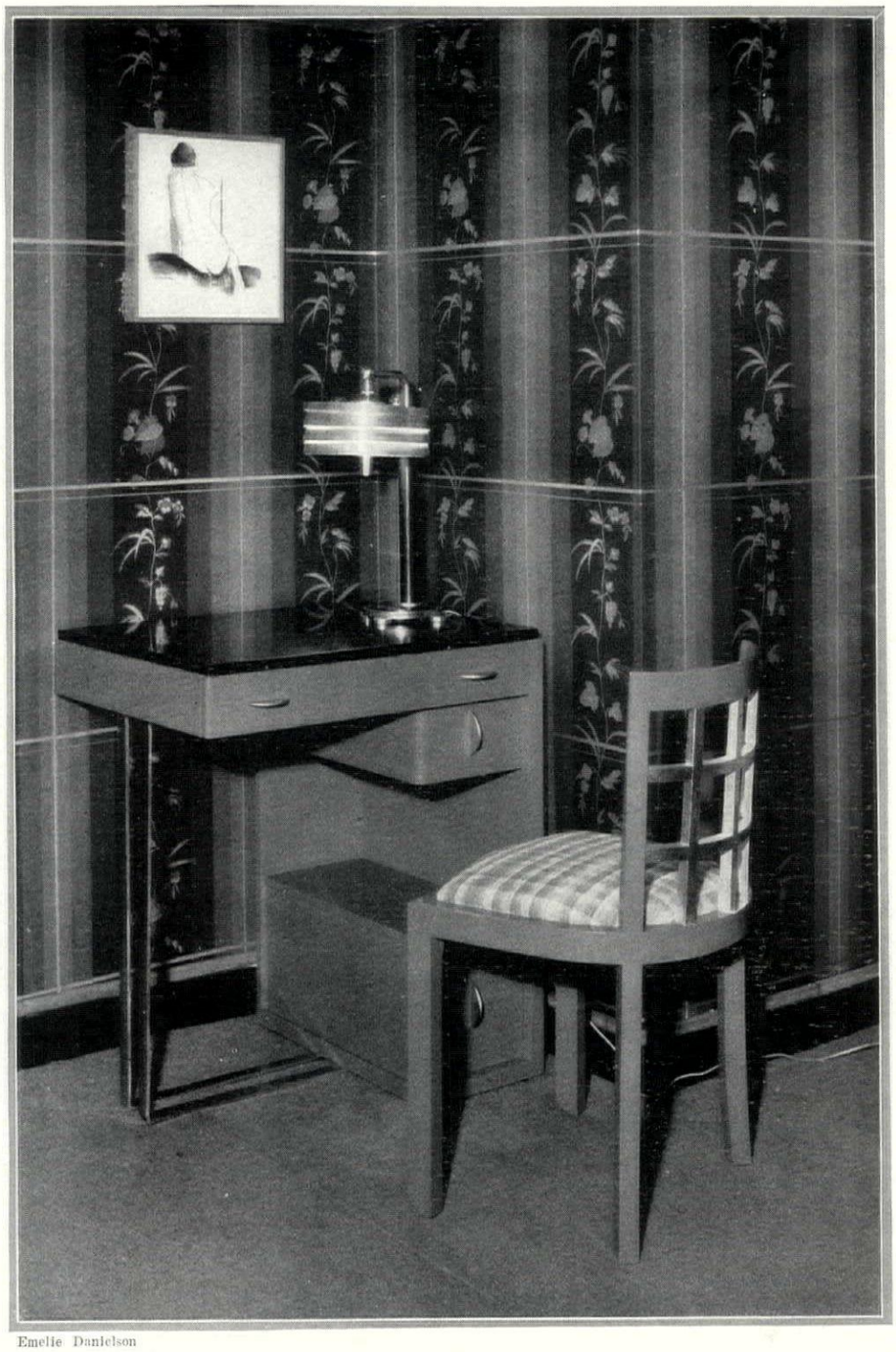
distinguished and different from the ubiquitous pale tints, but in each case provides a flattering setting for both furniture and accessories. Particularly is this the case of the room illustrated on pages 56 and 57, where such colors as beige, tan, brown, pale pink and white have been used in a setting of tête de nègre walls. This room with its assortment of old furniture in mellow wood tones, its varied accessories mainly in brown, pinkish beige and off-whites, its accents of gleaming mirrors and its pale pink ceiling, is vastly enhanced by the rich deep brown of the walls which lends dignity and richness to the scheme without detracting from the necessary light.

In the case of the living room shown at the bottom of page 54, dark walls seemed the only solution on account of the numerous accessories. This room has existed in its present state and color for upwards of three years and the crowded aspect is due entirely to the collecting mania of its owner. And while it has frankly far too many things in it, it does illustrate the qualities of restfulness and dignity found in dark walls.

The background was painted with a flat coat of violet-brown tinged with gray as a setting for a collection of Wedgwood Queen's ware and Leeds, two signed Louis XV *fauteuils* and four oval-seated Louis XVI side chairs painted old white. The *fauteuils* are covered in old velvet, the remains of a full-skirted 18th Century coat in plum and blue-green stripe, and the side chairs have their original silk and wool needlework seats, now silvery gray with age. The curtains of heavy cream-yellow silk, narrowly self-striped, are held back by bands of antique English needlework in dull colors on a brown-black ground bordered by yellow wool fringe. Four Regency side-chairs and a similar armchair are of beech and walnut with cane backs and seats.

As this room is only 12 by 18 feet, making it necessary for the larger pieces to be so covered that they melt into the background, a Victorian sofa is covered in brown-black satin. A large grisaille painting in fawn and brown, a Viennese 18th Century pastel portrait over the sofa in ivory, pink and mauve, and a Louis XVI embroidered panel on old ivory satin also look their best against this dark background. Porcelains and potteries range from the cream and red-violet of the Wedgwood to a pale salmon pink found in a group of Crown Derby cups and saucers. Lamps shaded in translucent taffetas—pale green, lemon yellow and gray-pink—continue the accents of delicate color and give at night a pleasing and subdued light. An Aubusson carpet carried out in claret color, pale green and cream makes a sufficiently dark floor.

The recent vogue of blue in decoration stressed the pale and medium tones such as hydrangea, *ciel* and a delicate French blue, and the greenish blues of aquamarine and turquoise. Newer than any of these and a distinguished medium for a city living room is a deep, bright blue, on the tone of a sapphire. A living room "darkly, deeply, beautifully blue" is illustrated on pages 52 and 53. Here there is no lack of light, the walls having richness and vigor in the daytime as there is no gray in the blue to dull the edge of its tone. At night, owing to the pale pink lights and the varied pinks found in the curtains, furniture coverings and rug, the room gleams with warm color that is



Emelie Danielson

BLACK AND GRAY

Although patterned with a delicate vine design in dull gold with touches of red, this modern wall paper produces the effect of dark walls, as the background is black shading into gray. Wood trim is black with gray moldings and the desk is gray with a black bakelite top and chromium supports. The chair seat is in gray and tan plaid and other furniture in this room is in red suède cloth The Frankl Galleries, decorators

G. W. Harting

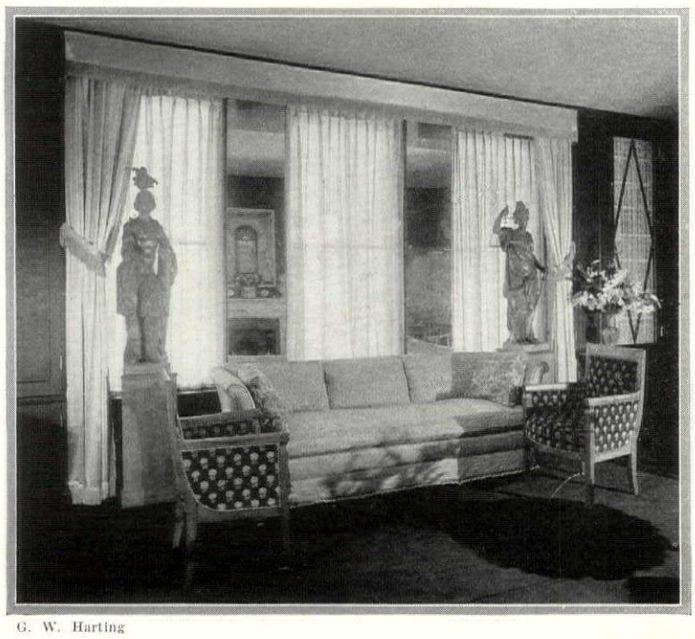
emphasized by the deep blue background.

Another living room distinguished by a dark wall treatment appears on page 54. This was painted a dark, rich green, with no hint of the ubiquitous blue-green so frequently seen in apartment house foyers. As a foil for Italian Empire armchairs and sofa painted cream and gold, and a wide shallow Empire mahogany commode, no better choice could have been made. The curtains of yellow moire match the yellow Empire damask of sofa and chair seats, and a small Aubusson carpet of baroque design in reds, yellow-greens and claret color supplies the required amount of bold pattern. A rococo Italian mirror of carved and gilded wood atones for the severity of a white marble Victorian mantelpiece in this room, while crystal appliques of Waterford design relieve the plainness of two otherwise unornamented wall spaces. Old paintings in dull gilt frames and a long mirror in a gilded frame on a white painted panel occupy other spaces, and panels from a Louis XVI paper screen decorate three doors.

An interesting variation of the dark wall treatment has been achieved in a dining room by painting the walls in a typical 18th Century Chinoiserie pattern in white on a green ground. While lighter in feeling than any of the preceding rooms, the effect is basically the same, with cream-colored Leeds and Wedgwood used for decorative value, and Sheraton mahogany chairs with flowered wool chintz seats providing dark accents. The silvery quality of the white and green walls is a perfect foil for a collection of Sheffield plate and delicately flowered Rockingham with gray and gold scrolls. The windows are left uncurtained save for white Venetian blinds to temper the light.

The effect of a dark background can be obtained with wall paper as it is possible to find interesting designs on dark grounds. An example of this appears on page 55. The background shades from black to dark gray and dominates the delicate vine pattern in gold and red.

With various and endless discussions raging about the value of what is called personality in decoration, it might be wise to pause for a bit to consider that the approach to such problems is always varied, and that personality as such is an incidental rather than an absolute quality in the resulting equation. The most beautiful rooms in my experience have been those which were composed by persons who gave little or no thought to the resultant effect of color and theatrical climax; by persons who followed rather their own dictates of suitability and affection for certain things. There, you will say, is the epitome of personality, but I must add that the results, paradoxically enough, proved that personality to be entirely un-selfconscious.



G. W. Harting

TÊTE DE NÈGRE

The three views of the living room shown on this and the opposite page are convincing proofs of the interest and dramatic appeal of a color scheme comprising dark walls and light-toned furniture and accessories. Here walls, trim and carpet are dark brown. The ceiling is pink

Windows, curtained in beige satin and separated by mirrored panels, silhouette interesting furniture groups. (Opposite) A Louis XVI desk holds alabaster lamps with shades of beige fringe. The painted chair is a Venetian type. (Left) The directoire chairs covered in brown brocaded velvet flank a sofa in tan brocade. The statues are 17th Century pieces executed in carved wood

All the colors of the room appear in the decorative fireplace group above. Chairs in beige plush and beige leather stand on a cocoa brown, pink and cream rug. Two old French plaster plaques in brown and white, and the overmantel painting of a country house hall further emphasize these same tones. Ruby Ross Wood was the decorator

Americana Through The Back Door— An Explanation of Kitchen Colonial

THE interest which is still maintained in collecting Americana is one of those expressions of national feeling that can never entirely die out. It may fade from our consciousness for a time, but it is always latent and ready to spring again into popular acceptance. We never entirely forget our forebears. The ghosts of innumerable grandfathers still haunt the countryside. Their manner of living, the household furniture and utensils with which they surrounded themselves, the books they read and the amusements by which they whiled away such leisure as their times permitted them, are all items of persistent interest. However conglomerate a populace we may have acquired through immigration, still that ancient strain maintains its influence, and the keeping of it alive is a form of commendable patriotism.

FROM the viewpoint of the collector, Americana fall into two general groups—the finer furniture and its concomitants of curtains, silver, china and such; and the more homely and humble articles of every-day usage around the household and on the farm. The former type reached its apex in those years when the Thirteen Colonies were being forged into a nation. This magazine calls it Federal Furniture, a name that has been widely adopted.

For those more every-day items that were expressions of rustic skill we use the term Kitchen Colonial. Into this class fall that vast assortment of hearthside furniture made on the farm by its owners or itinerant carpenters and cabinet-makers, that array of household utensils distributed by tin peddlers, or made at home—wool-carders, piggins, butter churns, the domestic shoemaker's bench and even the crude oil portrait painted by wandering artists.

Many of these Kitchen Colonial pieces, in themselves, have very little real beauty. The hearthside bench may lack the fine craftsmanship of a Savery highboy. The rough pewter, poured and hawked by itinerant salesmen, certainly shares none of the admirable technique of a silver teapot by Paul Revere. Nor can the absurd portraits, done by carriage stripers when carriage striping was dull, acquire the same admiration we have for a Stuart or a Saint Memin. Indeed, it is rarely for intrinsic beauty that we collect and cherish Kitchen Colonial. We are drawn to it, however, because it brings down to our time an intimacy with daily living that many a fine product of the Federal Era cannot convey.

We associate Federal Furniture with company clothes and manners; with Kitchen Colonial we associate every-day living—hands soiled with toil, work-worn clothes, women bustling about household duties, noisy children, the smell of a good meal cooking in the crane-hung pots, the domestic incense of summer preserving, family prayers, square dances, corn husking and the folds of rich, brown earth as the plow turned it over in the first days of spring.

These ordinary, every-day affairs are, after all, intensely indicative of a people. To know them is to know the average early American. To preserve them is to keep history alive. They show us the rock whence we sprang.

Because he has collected and reset in their approximate environment these crude domesticalities, Mr. Henry Ford is helping to preserve national spirit to a splendid degree. Both in his restoration of the Wayside Inn and in his collections at Dearborn he has assembled and is assembling invaluable records of ordinary early Americans—the Babbitts of Colonial times. So is anyone who is collecting and preserving these crudities of domestic life in early days. It is America without its powdered wig and brocade coat. It is the Colonial forefather in his shirt sleeves.

PERHAPS some people who trace back their heritage to these Colonists do not care to think of them as ever in shirt-sleeves; nevertheless there is scarcely a one of them but can be found in every-day clothes. The contemporary school of biographical and historical writers are usually advertised as "debunking" the past; what they really are doing is setting up human beings against the very backgrounds and amid the very furniture and utensils that Mr. Ford and the other collectors have assembled. George Washington with soiled clothes and wig awry is even a more appealing person than George Washington immaculate and wearing a halo of adulation. Certainly this gentleman farmer—for that is what Washington was—had enough of the Kitchen Colonial in his make-up and daily life to keep him a very human being. There must have been many times when his boots were caked with mud and he strode into Mount Vernon reeking of the stable.

Not alone were these great and well-known figures often to be found *en deshabille*, but the general run of folks in those days rarely knew anything else. It is a mistake to think of them as always wearing Sunday clothes and displaying company manners. The Babbitts of Colonial times were as ordinary people as Sinclair Lewis' Babbitts of today. The Revolutionary Army was a Babbitt rabble. Almost to a man the Pilgrim Fathers were middle-class Englishmen. Very few of the first Quakers who came to Pennsylvania could claim any aristocratic connections. Except in rare instances the Thirteen Colonies were settled and developed by ordinary people. They were Kitchen Colonists. And they also were extraordinary people because of that very fact.

SOME remained Kitchen Colonists all their lives and their descendants in our Southern mountains have never risen above that state; others, having accumulated a surplus, graduated into the class that bought Federal Furniture. As the bootblack of today is the potential millionaire of tomorrow, so was the Kitchen Colonist of the 17th and early 18th Centuries the potential Federal Furniturist of the late 18th and early 19th Centuries.

Until people began collecting Kitchen Colonial, it was customary to visualize the entire Early American scene as one of aristocracy, fine clothes and splendid furniture from which the taste filtered down to the classes below. Mr. Ford and those who collect the cruder implements and furnishings are reversing this process: they are beginning at the bottom, at the isolated farmer and his wife and their daily drudgery. They are entering the Early American home, not through the carved portal of an admirable Georgian façade, as most of us do, but they have gone around back, and come through the kitchen door.

—RICHARDSON WRIGHT

Joan Wallace Gillies

The Ancient Marks Of The Adze

Time-toned timbers, still bearing the ancient marks of the adze and pegged together in the old country style, form the support of the roof in the living room of this Norman farmhouse, the home of Jay Hyde Barnum, at Silvermine, Conn., of which Forster & Gallimore were the architects

(Above) A panel showing Spanish intarsia work. Similar wood inlay was used on much Italian furniture in the 15th Century

Woods And Their Influence Upon Furniture Designs And Ornament

Katharine Morrison Kahle

EXOTIC and colorful woods have interested the cabinet maker from the dawn of history. Today when we hear such fanciful names as amaranth, palisander, granadilla, jarrah, padouk and thuja, they at once bring to mind fantastic tales and visions of far off lands. And as no story is so strange as fact, so the facts and folklore connected with woods are full of romance and godly personages. Simple walnut and oak, which do not stir our imaginations today, were sacred to the gods of mythology. Walnut was known as the "Nuts of Jupiter." Oak, also sacred to Jupiter, in later years was worshipped by the Druids. The prominent part which oak played in the minds of the people of the middle ages is suggested by the phrases "King's oaks," "Queen's oaks," "Thor's oaks," and "haunted oaks."

The deodar is revered in India and has become associated with our burying grounds because the Hindus planted these trees among the graves of their dead. This was done not so much to protect the graves, but to protect the sacred deodar trees. Simple holly, which was used extensively in the inlay of early English furniture, was credited with magical powers, and newborn children were baptised in water which had seasoned in a stump of holly.

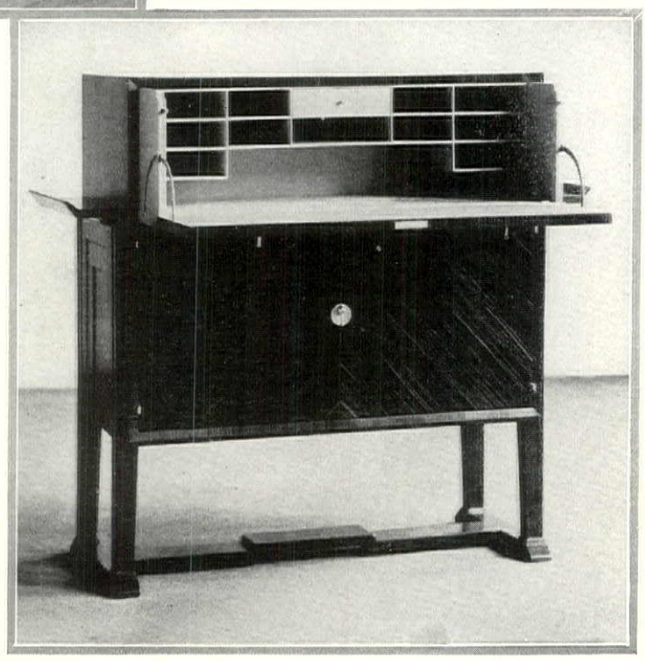
In Egypt from the earliest dynasties the incidents of history and mythology were carved in wood. Among the woods used by the Egyptians were sycamore, tamarisk, deal, cedar, ebony and certain rare woods from the East.

The principal material used in the construction of Greek and Roman furniture was wood. Homer mentions olive wood and Theocritus, cedar. Beds and tables were made of maple, willow and juniper. Citron was especially prized for table tops because of its color and fine grain. Cypress and beech were usually preserved for chests. Indeed, the chest of cypress has become a tradition and since early times has served as the coffins for Popes. Yew, cedar, oak, fir, alaternus, holly, lime and zygia were also used for chairs, stools and beds. Pliny speaks of the vogue for rare figured woods among the Roman plutocrats. Among these exotic woods used for veneers were thuja, persea, box and terebinth and ebony.

The innate qualities of woods suggest the shapes and decoration of furniture to be constructed from them, and woodworkers are always bound by the limitations of the particular wood at hand. In the Renaissance, because of the abundance of native oak and walnut, these became the important woods. Also, because they were found to be excellent surfaces for carving, carving became the principal method of decoration. If the majority of pieces of furniture of this period are decorated with carving, it is because carving seemed more suitable than any other decoration. Also, in spite of the existence of certosina and intarsia on Italian furniture and some Spanish, French and English pieces, there was a scarcity of ebony, box, white poplar and holly, the woods used for this inlay.

To the character of the wood may also be traced the variance in the carving. English Renaissance furniture, since it is mainly constructed of oak, has crude, well defined carving executed in sharp cut relief, while the carving on the walnut pieces of Italy

As mahogany was adapted to high-relief carving, this type of ornament became the chief decoration on Chippendale furniture. Above is an original Chippendale chair showing clean-cut carving on legs and back. From Stair & Andrew



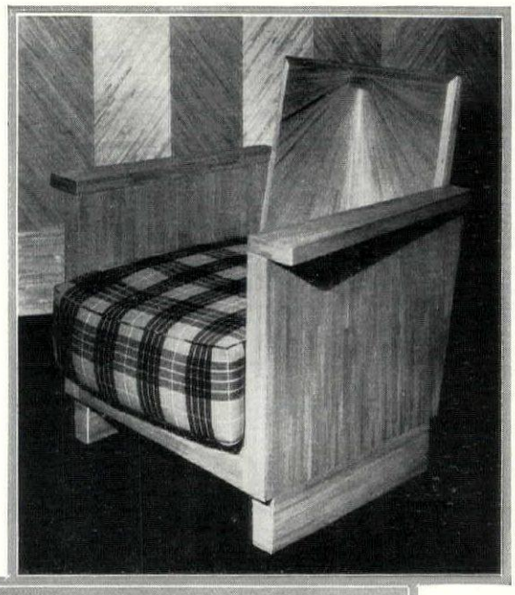
Exotic woods are frequently used in modern furniture as the simple lines and plain surfaces of contemporary designs are ideal mediums for unusual wood treatment. (Right) A desk of ebony, harewood, sycamore and mahogany. From Eugene Schoen

and France is much more suave, more finished and more sculpturesque.

The 17th Century saw the beginning of the heyday of inlay and marquetry. The oak and walnut furniture of the Louis XIV was inlaid and veneered with ebony and wine-red amaranth. In fact so much ebony was used at this time by Boulle and others that the traditional name of French cabinetmakers dating from this epoch is *ébénistes*. To be sure, Boulle had other woods to use. There were hornbeam, holly and chestnut for white; cherry and yew for red; yellow olive wood and acacia for yellow; walnut for gray and brown; and violet wood for a beautiful violet brown. Then there were always the much less expensive native fruit woods that could be stained the color desired.

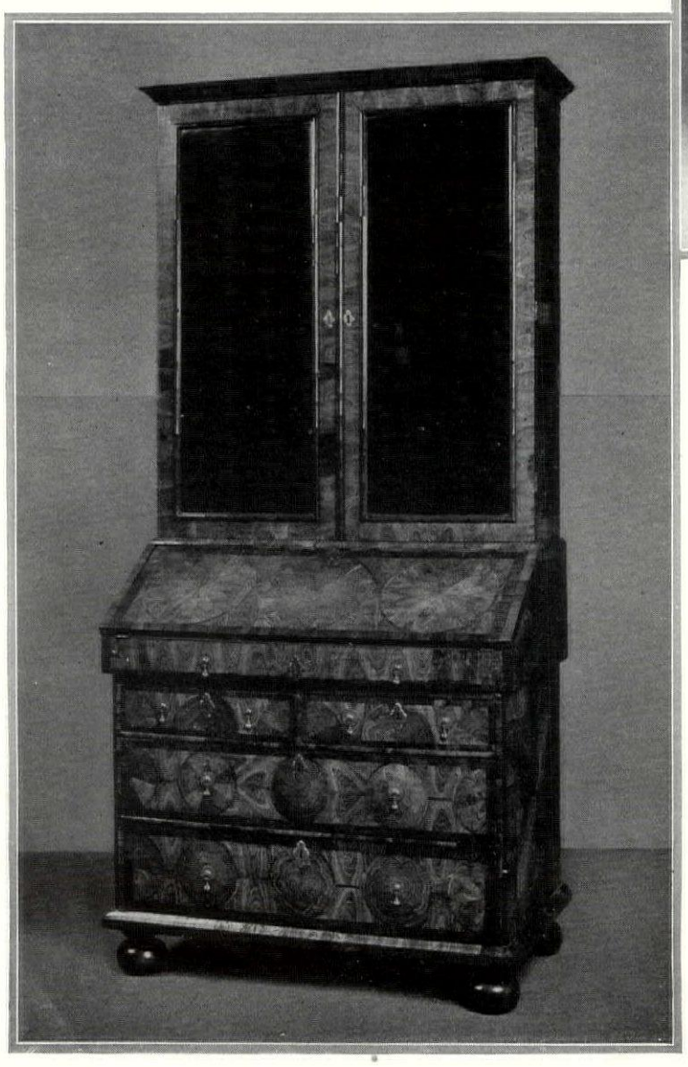
The age of walnut in England was also an age of marquetry and inlay and veneer, because walnut was too precious to be used solid. Then too, the cabinet makers appre-

(*Continued on page* 102)



(Right) This interesting modern chair, designed by the French decorator André Groult, is covered with straw applied to form radiating lines on the back. The deep cushion is covered in brilliant plaid wool

The decoration of the Adam commode below is achieved entirely with ornamental woods. Veneered and inlaid with East Indian satinwood, harewood, box sycamore, mahogany, holly and thuja



In the age of walnut in England cabinetmakers used this wood as veneer, making decorative designs with the strongly marked graining. At the left is a walnut secretary with ornamental oyster marquetry. Edward I. Farmer

Decorative marquetry work gives beauty and interest to the small French desk illustrated above. The front and sides are inlaid with various woods to form a beautifully executed floral and scroll design of delicate coloring

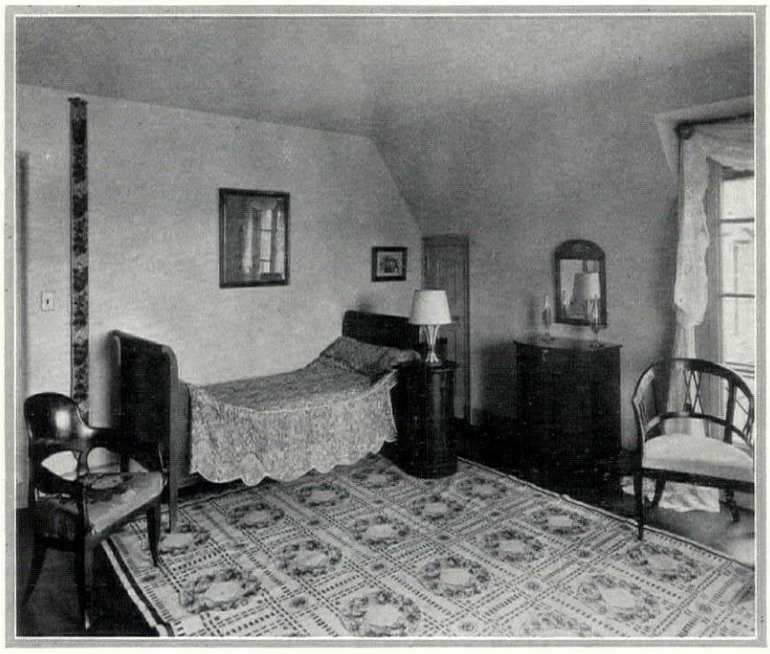
Drix Duryea

The rooms illustrated show excellent examples of Biedermeier furniture made of woods varying from the light apple wood and pale ash of table and chair in the foreground above to the darker tones of Hungarian walnut and mahogany used for the desk and swan sofa

Walls are lemon yellow with gray trim. Curtains of lemon chintz bound in green hang from cornices covered in wall paper. Chair coverings are yellow and green and the Bessarabian rug has a black ground with scrolls in green and henna

(Left) In a bedroom Biedermeier chairs are covered in green and black rep. Walls are white with bright green trim and prints of the typical Biedermeier lady are framed in gray and green. Louise Tiffany Taylor and Elisabeth Low, decorators

Four Rooms Furnished And Decorated In The Biedermeier Taste



IN August 1928, House & Garden, in a comprehensive article on Biedermeier furniture, prophesied a revival of interest in this style. That was the beginning. Not long after, several enterprising decorators began featuring Biedermeier furniture, extolling its adaptability and suggesting its use in both Empire and modern schemes. Such an interesting development in decoration was not overlooked by progressive New York department stores, a number of which were soon exhibiting excellent examples of Biedermeier design. So grew an interest and appreciation of this decorative style which reaches its latest development in the house illustrated on this and the opposite page.

Biedermeier furniture, so named for "Papa Biedermeier", a purely fictitious character enlivening the pages of the *Fliegende Blätter* in the early part of the 19th Century, is the German, Dutch and Scandinavian expression of Directoire and Empire styles. The pieces are a trifle heavier than their French prototypes, more simple in contour and less elaborate. If much Biedermeier furniture seems to lack the delicacy and aristocratic grace of its French ancestors, this omission is atoned for by a vigor and freshness of design and by a brilliant use of contrasting woods. Outstanding in Biedermeier furniture is the employment of ebony or black details with light woods.

(Top of page) In this bedroom with green walls and mull curtains, the bed is covered in green and yellow silk. The chair is an Empire version of Biedermeier and the table at the left is of later date when designs grew to be more fantastic

(Center) Walls are apricot pink with gray trim and the rug is white patterned with pink rose wreaths. The bed of apple wood is a German version of our own sleigh bed. The remainder of the furniture pieces are in light toned woods

(Right) Another view of the bedroom shown on the opposite page. Curtains are white embroidered mull and the rug is Bessarabian. The bed and the small table are the Biedermeier conception of Directoire design. Louise Tiffany Taylor and Elisabeth Low were the decorators

The Care And Refinishing Of Old Furniture

Marjorie Reid Rodes

EACH piece of old furniture which we possess, whether it is a family heirloom, a prize brought back from some personal adventure or an acquisition through the most prosaic channels, is a valued possession. Such pieces give mellowness and dignity to our rooms and form pleasant connecting links between ourselves and that aura of romance which surrounds remote periods and places.

When old furniture comes under our care it is a duty as well as a pleasure to preserve or restore its beauty. Fine wood that has been too long neglected or, still worse, has suffered the indignity of opaque paint, will need a complete "doing over." But even this process is one which the amateur need not hesitate to attempt if the methods of the cabinetmakers are carefully followed.

PRIMARY NEEDS

Furniture needs plenty of fresh air and moisture. The tone and finish of many beautiful old pieces have been destroyed by the dry climate and overheated houses in this country. This applies especially to furniture brought from England, which is said to require at least a year to become properly acclimated. The windows should be opened frequently and there should be an uncovered vessel of water in any room where there are fine pieces during the months of artificial heat. The air will save the wood from becoming lifeless and dull and the water will prevent dryness and cracking.

It is easier to keep furniture in good condition than to put it back in shape when it has been damaged by neglect. All it needs under ordinary conditions is to be gone over every week or two with oil. A rubbing oil may be purchased from a reliable cabinetmaker for the purpose. Boiled linseed oil is equally good and is said to be the only preservative used by several well known collectors of old furniture. Linseed oil is often combined in equal parts with turpentine and white vinegar to avoid stickiness. It should be applied sparingly with a soft wool rag, left on a few moments and then polished with a dry, soft cloth. The rubbing should be done with moderate pressure and continued until all oil is rubbed either in or off. Oil repeatedly left on the surface will spoil the polish.

Rubbing with oil will usually cover superficial scratches. If surfaces are deeply scratched, or cracked, they are sometimes filled with a paste of thick gum arabic colored with dry pigment to match the wood —Venetian red for mahogany, raw umber for maple, etc. A hole where the wood has been actually gouged out may be filled by using stick shellac of a matching color, melted on a heated knife blade.

Waxed furniture may be renovated by an application of liquid wax instead of oil and a daily dusting with waxed cheesecloth. Or a mixture of beeswax and turpentine may be used, as described further on in a formula for refinishing. Some prefer this to an oil polish on any type of surface, but it needs more rubbing. Varnished furniture which has grown dull will be revived by a sparing use of crude oil on a piece of flannel, which should be followed by a vigorous rubbing with soft silk. To revive a hard glazed "French polish," use equal parts of turpentine, vinegar, alcohol and plain linseed oil. If furniture has developed the cloudiness known as "gloom," it should be sponged with cheesecloth wrung out of the following mixture: one tablespoonful of vinegar, one tablespoonful of linseed oil and two tablespoonfuls of turpentine in a quart of hot water. This treatment should be followed by oil or wax polish.

REFINISHING

Many old pieces, unfortunately, have been improperly finished or painted, and the only thing to do is to clean the surface and begin over again. If the old surface is wax, sponge it first with turpentine and then use a painter's scraper. For paint or varnish, a paint remover is usually necessary. This should be brushed on in a well ventilated room and left until the finish is soft and easily scraped off, the surface afterwards being washed with denatured alcohol or benzine as called for by the brand of remover used. Where ink or other stain has sunk deep into the wood it is best to use hydrochloric or oxalic acid as a bleach. A few teaspoonfuls in a cup of warm water are sufficient. Rub the solution on with a cloth and repeat as many times as necessary, allowing each coat to dry. Wash off the residue with soap and water.

When a surface is thoroughly clean and dry, it must be made smooth before any new finish is applied. This should be done with fine sandpaper (No. 00), supplemented by fine steel wool to be used for crevices and rounded surfaces. It is sometimes helpful to fold the sandpaper over a flat block of wood. Always rub with the grain. The entire surface must be smooth to the touch and all particles of dust must be wiped off with a soft cloth before refinishing.

FOR UNIFORMITY

Various solutions are used by cabinetmakers to get uniformity and depth in wood tones, particularly where a piece has been patched with new wood. For mahogany, a saturated solution of bichromate of potash may be used, applying several thin coats. This tends, however, to darken the lighter woods too much. On maple, permanganate of potash may be applied in the same way. Pine is sometimes treated with a tablespoonful of household lye and two of strong washing powder, dissolved in a cup of water. This is especially useful in matching new wood to old. Linseed oil will darken and enrich the wood tones but its effect should be tried out in an inconspicuous place as its action varies. One piece of wood will be mellowed and beautified by the oil, while another will become too dark, and quite lifeless. Dilute the oil with one-third part benzine, apply it liberally with a stiff brush and allow it to stand twenty-four hours, after which the surplus should be wiped off. All caustics mentioned above should be used with considerable care to avoid the chance of injury to hands or clothing.

If the tone of the wood is to be definitely deepened or changed, it is best to dissolve a small amount of pigment color in turpentine. Raw umber used on such woods as birch, poplar, pine, whitewood and the fruit woods

(Continued on page 110)

Richard Averill Smith

In addition to arresting color schemes, the interiors on this page illustrate practical and effective furniture groupings. Although the rooms are limited in size, the numerous pieces have been so artfully placed that there is no sense of overcrowding. In the living room above, walls are pine, the carpet a rich bottle green and the damask curtains flame color. The sofa is covered in flame and green linen. Chandler Ireland is the apartment's owner and decorator

Walls and woodwork in the breakfast room at the left are pale green, this color suggesting space. Flooring is black rubber inlaid with brass stars and the curtains are modern voile in three shades of green. French furniture is appropriately small in scale. (Below) Chartreuse walls, blue ceiling and Venetian blinds, and a burgundy carpet are striking color notes in a French bedroom. Curtains are of Directoire chintz in chartreuse, green, blue and burgundy

Well Arranged Furniture And Interesting Colors In A Decorator's Apartment

Emelie Danielson

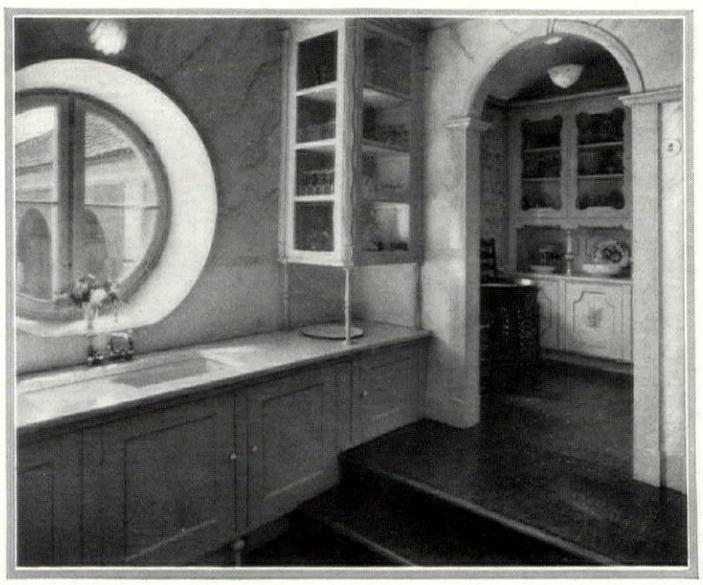
At Lidingö, an island township outside of Stockholm, is the home of Carl Milles, the noted Swedish sculptor. Superbly situated on a promontory overlooking the Baltic, the rambling house with its terraced garden offers many ideas in decoration adaptable to this country. Furnished for the most part along traditional lines, the rooms show a variety of distinctly Swedish detail

Outstanding among the many interesting interiors is the library, illustrated above, distinguished by a Classic background and Swedish furniture of Empire design. Walls are pale gray with cornice, stiles and dado finished a deeper gray; moldings and ornamental details are picked out in antique white. The furniture is gray with white decorations, upholstered in green satin. On the parquet floor is a hand-woven Swedish rug

Swedish Empire Furniture

And A Tiled And Painted Breakfast Room

In A House On The Shores Of The Baltic



(Above) A small breakfast room is very light and gay owing to a color scheme of white, brilliant blue and green. Walls are white decorated with blue and white tiles. The built-in dresser, with its charmingly shaped door frames, is white ornamented with painted decorations in bright blue. As the round window frames a lovely vista of garden and sea, it is left uncurtained

At the left is a view of the adjoining kitchenette where the walls are marbleized pale gray and white, with deeper gray wood trim. The flooring here and in the breakfast room beyond is green strié linoleum highly varnished. The round recessed window is repeated in this room and above it is an ornamental lighting fixture of creamy opaque glass in the form of a graceful shell

A Review Of Individual Gas Systems For Country Homes

Elizabeth Hallam Bohn

SHINING cylinders of high-powered gases make it possible for the country dweller to use one of the alluring new models in efficient gas ranges, water heaters, refrigerators, laundry equipment, radiant heaters and even lighting systems. While for those who spend their summers on the water this wonder fuel is put up in more compact form to make yacht or houseboat a rival of home in completeness of kitchen comfort.

There is a formidable list of gases to perplex the seeker after the most suitable sort for his use, and the matter of local service will often be the determining factor in choice between many satisfactory varieties. The simple equipment required consists of two steel cylinders, snugly fitted into a locked steel cabinet which is mounted on a concrete base located outside the house.

OPERATION

These cylinders contain the concentrated fuel—a product of natural gas, refined, purified and compressed. Most of the tanked gases are in gaseous form at room temperature and the fuel is drawn from the top of the cylinder through a reducing valve which cuts the pressure down to the amount required by the appliance it is serving. Safety devices prevent the building up of too high a pressure in the house. Direct from cylinder to the appliance the fuel is piped, exactly the same as city gas. Indeed, should urban service become available, the piping is ready for the transfer. When one cylinder has yielded up its contents, the turn of a switch connects with the second container and a call to the service man brings a fresh cylinder to the door.

Other gases are liquid and draw from the bottom of the tank, first reducing from high to low pressure and then to gas, or demanding a special pre-heating burner to gassify the fuel.

Final proof of the safety of the equipment under consideration, is the approval of the Underwriters and a definite check-up should be made, before a purchase is consummated, that the particular brand has passed their rigid specifications.

Many of the bottled gases are offered with the claim that they will serve any existing equipment. A slight change, however, is necessary in the burner to allow of a greater air supply. For the bottled gases on account of their extreme heat and purity need nearly seven times the amount of air necessary for the combustion of ordinary gas. In the new appliances this adaptation is made at the factory and in ordering any equipment for these fuels, the name of the gas to be used should always be given. Where an older stove or water heater is to be equipped with the new gas, the service man who installs the system will make the change and no one else should be allowed to have a hand in this adjustment.

> More detailed information about any of the gas systems mentioned in this article, the names and addresses of manufacturers or recommendations which will apply to definite localities will be promptly furnished on request to House & Garden's Reader Service, 420 Lexington Ave., New York City.

With a perfect balance between gas and air, the flame will have a bright blue inner cone, sharp and clear, with an almost invisible edge of pale violet. This is the hottest and most efficient flame possible. Where air is insufficient, the inner blue cone is blurred, and slack and yellow tips appear at the edge. Not only is such a lazy flame not as hot, but it will leave a discouraging and highly unnecessary trail of soot on shining saucepans. Sometimes this yellow-tipped flame is merely an indication that there are only a few hours of fuel left in the cylinder. Too much air causes flame to lift away from burner.

EQUIPMENT ADVICE

A few of the manufacturers sell their equipment only in units with range complete, in order that the most satisfactory results may be obtained. For there is no doubt that sometimes blame is placed on the fuel when, in reality, leaky joints or too great radiation may be causing waste of gas and poor results. Other companies coöperate with the manufacturers of equipment and maintain services to advise on which equipment will best suit individual needs. For instance, a simple arrangement of a water heater has been devised which is economical, gives hot water quickly for kitchen use, and if operated for a longer period will heat the contents of a tank. A great saving of fuel is effected by the insulation of the tank.

Laundry equipment such as mangles, ironers and clothes dryers, all come within the scope of bottled gas service. Radiant heaters send out their grateful rays at the advent of a cold snap. And where the old-time servant still insists on a perpetually boiling tea kettle and a constant fire, there are the combination coal and gas ranges to supplement the comfortable coal range with the more flexible fuel.

GAS REFRIGERATOR

Then there is the newest comer in the gas-served field, the gas refrigerator, carrying on its silent benefactions through a tiny constant point of gaslight and a trickle of water. Here, too, the kind of gas should be specified when ordering a refrigerator, for the burner must be closed down to consume much less gas than is required with the manufactured product.

It is difficult to estimate the cost of comfort, of speed and of complete cleanliness, all of which are provided by efficient gas devices served by bottled fuel. Even the comparative cost in dollars and cents can only be roughly computed. For no two families do the same amount of cooking. In one home, canning and jelly making may be part of the routine, with long time roasts and puddings to satisfy a large family's appetite. In another, efficiency in operating may be the chief consideration. In still another family there may be a prodigal cook at work who lavishes goodies and gas with the same generous hand.

In comparing bottled gas with the cost of city gas, an old bill will give the number of cubic feet used in a month. One cylinder of this particular gas equals approximately 5,000 cubic feet of city gas, so the monthly cost is easily computed.

(*Continued on page* 104)

Samuel H. Gottscho

A flavor of Victorianism pervades this bedroom in the home of Mrs. J. H. Ottley, Glen Head, L. I. where early 19th Century rosewood furniture is combined with mahogany of an earlier date. Delightfully reminiscent of the best phases of Victorian decoration are the flowered walls, festooned curtains and swag drapery about the base of the chaise lounge

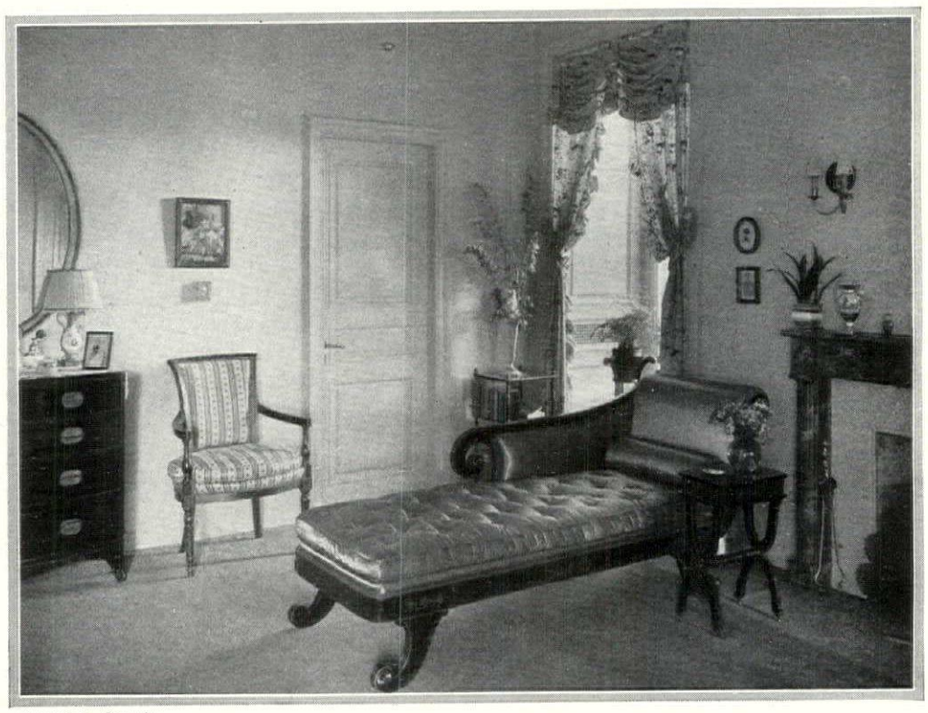
Walls are covered with a white ground paper patterned in a gay design of rose clusters and lace. The curtains are of yellow percale trimmed with a rose flowered border and finished with a swag valance. Flower bordered white muslin makes the bed hangings; the bedspread is of old hand woven white cotton

Upholstery fabrics used in this room are unusually colorful. The side chairs are covered with yellow percale decorated with a painted design of roses. On the sofa in the far corner is a small patterned chintz having a yellow ground. The chaise longue is upholstered in red satin. The plain toned rug is a grayish taupe shade

Thedlow, Inc.

Decorators

A Portfolio Of Eight Bedrooms Illustrating French And English Decorative Treatment



Samuel H. Gottscho

This Bedroom On Long Island Is Decorated With Mixed French And English Furniture

That furniture of different periods can be combined successfully is apparent in this interesting bedroom where the pieces are a mixture of French and English styles. Beds, desk, corner table, and chest are 18th Century English; chairs are Directoire and the chaise longue is an English interpretation of Directoire

Walls and wood trim here are soft yellow and the curtains are of green ground percale patterned with red and yellow flowers. A yellow chintz sprinkled with red rose buds makes bed curtains and valance. Beds are painted light green with design in gray-white; spreads are of old embroidered white mull

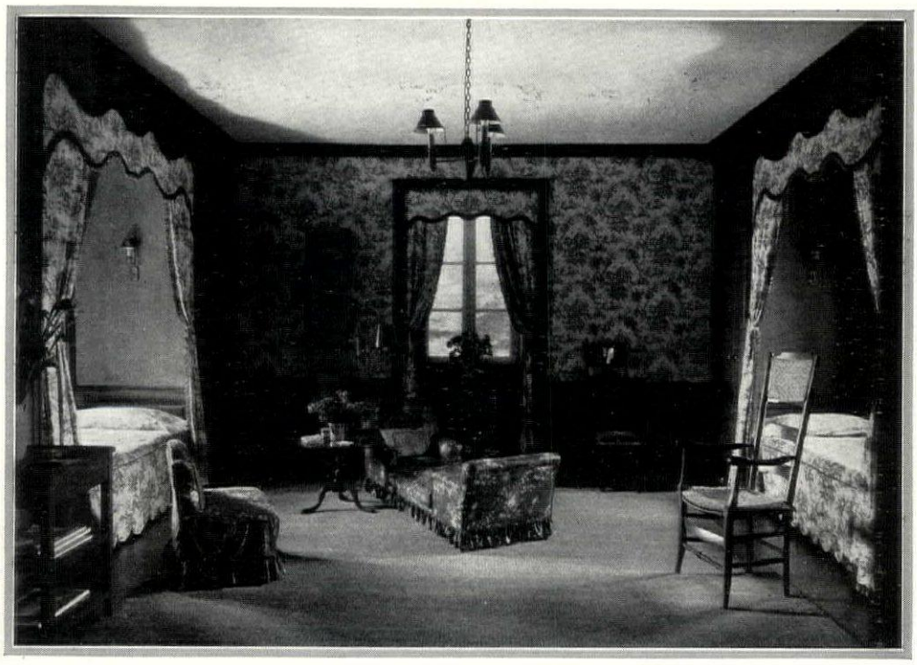
Two benches have pads in red, green and white plaid silk; the chaise longue, painted black and gold, and the chair in the window are covered in red satin. The Directoire armchair is in red and white striped percale. Room is in the residence of Mrs. E. Mortimer Barnes, in Glen Head, L. I., Thedlow, Inc., decorators

French Furniture And Decorative Schemes Dominate In Two Country House Interiors

A charming French provincial guest room in the home of Mrs. E. Mortimer Barnes in Glen Head, L. I., has bed alcove faces and dado paneled in oak. The remaining walls, window curtains, and the hangings and spreads on the recessed beds are of red, pink and white toile

Chintz with an eggplant ground patterned in red roses and green leaves covers the chaise longue and slipper chair. The rug, which was woven especially for this room, is pink, red and white. Furniture in the French provincial manner, is of oak and fruit woods

(Below) Another unusual guest room has red and blue wall paper, embroidered muslin window curtains with blue and white checked silk valance trimmed with plum colored bows, and mixed French provincial and Colonial furniture pieces. This bedroom is in the residence of Mrs. Carroll Alker at Brookville, Long Island, of which Thedlow, Inc. were decorators



Samuel H. Gottscho

Antique Scenic Paper And Effective Use Of Flowered Percale For Walls And Curtains

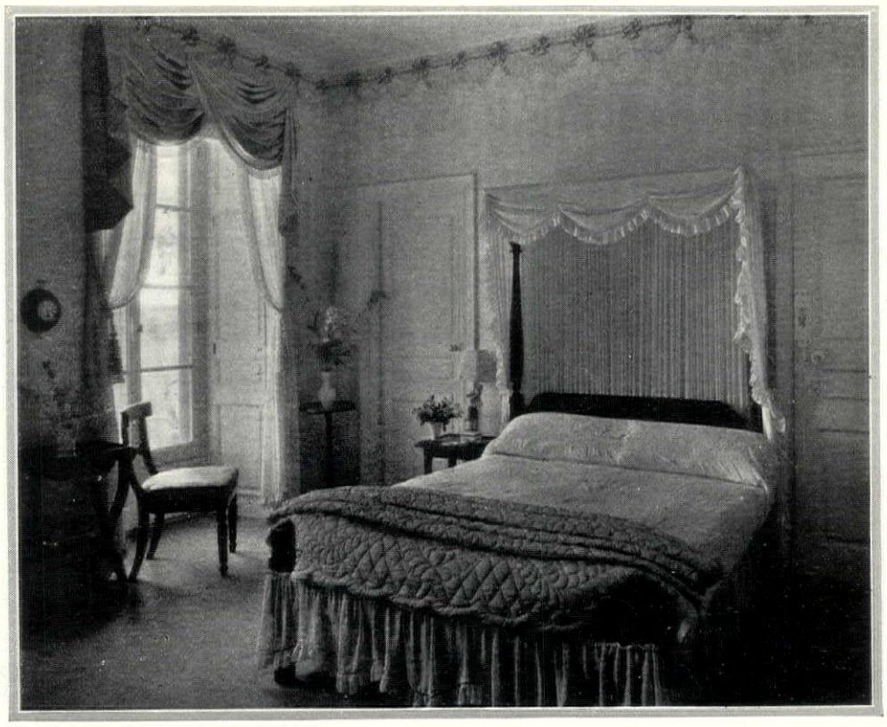
(Left) Old scenic paper forms an interesting and colorful background in another guest room in the Long Island home of Mrs. E. M. Barnes. Wood trim is painted blue-green, the dado being painted to simulate paneling. Bedspreads are green percale and the voile curtains hang below blue-green taffeta valances

A decorative feature of the room below is the use of brown printed percale for both wall covering and curtains. The dado and fireplace wall are paneled with pine wall paper; cornice is pine. Antique Louis XVI beds, old white with blue decorations, have bedspreads of brown, white and blue checked taffeta

The wing chair is upholstered in a brownish-plum quilted petticoat. One armchair, painted a light blue, has a covering of old blue and white chintz. The residence of Mrs. Carroll Alker at Brookville, L. I. Thedlow, Inc., decorators

Samuel H. Gottscho

Samuel H. Gottscho



(Above) Also in Mrs. Alker's Long Island home is this charming bedroom distinguished by a delicate and unusual background. The walls are carried out in old white, painted in the 18th Century Italian manner to simulate plaster decoration. The narrow bands which form the panels are pink with rococo decorations in white

The bed covering, spread and canopy of old French flowered percale with a white ground are bound in cherry red gimp. Cherry color also is the satin slipper chair. The armchair is painted white and upholstered in flowered chintz; red and white striped chintz covers the side chair at the window. The carpet is taupe

(Right) This charming bedroom for a young girl has an appropriate wall paper of white satin and lace stripes, with a lace and ribbon border. Window curtains of white taffeta have an azure blue satin swag valance trimmed with white cotton fringe, and soft white voile makes the bed canopy

Canopied Beds Hung In Delicately Toned Fabrics Reflect The Country Atmosphere

Silverware From The Orient

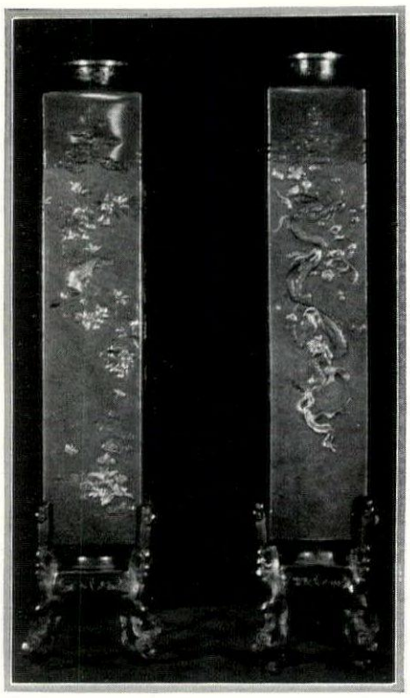
A Glossary For Collectors

Mr. and Mrs. G. Glen Gould

A FALSE impression is prevalent that Orientals did not and do not use silver for domestic purposes, especially for tableware as is done in Europe and America. The fact that complete table services of either silver, gold, or jade were in vogue in China in the Ch'ien Lung period (1736-96), quite as distinctly as in Georgian England or 18th Century France, corrects this impression permanently. Doubtless the distribution of silver plate was less wide than in Europe or even in America, just as the distribution of all luxuries in the Orient has been for ages confined to royalty, the nobility, and the few notable families that have acquired wealth.

Oriental silverware of such varied provenance as Persia, China, and India, can be grouped together as rationally as can that of Continental Europe, and for more than one reason. The art of each country touched that of the others very anciently, and Chinese medallions and Persian arabesques were interchanged. Religion, too, played a conspicuous part, especially Taoism, Buddhism and Mohammedanism. Each had its carefully preserved symbolic motifs and modes of decoration, and religious ornament and symbolism were not considered unfit for articles of household use.

Much less is known, as a matter of general information, of Oriental silver-work than of Occidental. It is as a whole somewhat extraordinary to Western taste, largely because of its lavish ornament. Not that "grotesque and extravagant fantasy" are natural to the Oriental craftsman, as is claimed, but tradition and symbolism—religious, philosophical and literary—are essentials of decoration and so must be interwoven and enriched in the ornamental design. Symbolism is often outstanding in China and Japan; hidden in cryptic meaning of trees and flowers in Persia; and either bold or cunning in the script-adorned metal-work of the Saracens. As to the articles, there is such an assemblage of bowls as is undreamed of in our Western World, for the bowl in the Orient is often plate, dish and cup combined. Cups, tumblers, shallow saucers, plates, jars, jugs, ewers, vases or carafes of many forms, with or without handles, goblets, tazzes, buckets, basins, rose-water sprinklers and above all the suave outline of the boat-shapes rival the often more hasty work of the West.



Bronze is China's favorite art metal. Enriched with precious metals, as in these vases, it becomes superb. A dragon design and one of magnolias are in silver and gold. American Art Association—Anderson Galleries, Inc.

Below is an interesting collection of typical old Persian and Indian silver cup holders, executed in pierced and filigree work, made to hold handleless cups for eggs and coffee. These are shown by courtesy of Daniel Z. Noorian

Beautiful Indo-Persian silverware in filigree and pierced work was not confined to jewelry alone, but was used also for such domestic articles as those above. Courtesy of Daniel Z. Noorian

Syro-Egyptian brass-work was frequently enriched by inlaying the design in silver and gold, as in this incense burner, second half of 13th Century. Shown by courtesy of The Metropolitan Museum of Art

Decorative processes include *repoussé* hammered work, chiseling, chasing, enamel and filigree, inlaying or damascening on other metals and work in the round for statuettes.

When Oriental silver objects are brought home from Asia, bought at home from a dealer or at an art auction, all too rarely does any definite information change hands with the object. Orientals, if we except the Japanese, are not forward in volunteering such information to a casual purchaser, but to any one with what they deem "an understanding soul" they will give of the riches of their ancient knowledge with a magnificent gesture.

Arabian: See Saracenic.

Armenian: Mesopotamian, and later Persian and Saracenic influences. 16th Century work notable. Beautifully wrought book covers for the Gospels.

Asia Minor: Greek classical influence mingled with that of Mesopotamia and Syria, and later Saracenic influences. See Saracenic.

Assyrian: See Mesopotamian.

Burmese: Silver vessels exclusively for royal use until mid-19th Century. Old work—very light weight, figures in low relief; Chinese and Indian influences. 18th-19th Centuries—European and other foreign influences. Two 19th Century schools of work—Rangoon: restrained, accurate, formal; Thayetmyo: free, bold, less exact. Chasing, *repoussé* and detached figures typical, with piercing and burnishing of parts of design. Bowls, cups, betel-nut and lime boxes typical. Bright silver design on black ground a favorite.

Chinese: Prehistoric use of silverware, ancient pieces usually attributed to pre-T'ang period. Han Dynasty (206 B. C.-220 A. D.) and earlier objects in bronze with elaborate silver inlay; vases, cups, mirrors, lanterns, etc., all of silver or parcel-gilt; delicate inlay, *repoussé* and pierced work; ornament typical of period—spirited figures, mythological animals, scrollwork, and fret. Distinct change of design in T'ang period (618-906) and later; floral, foliage, and animal motifs more realistic, especially graceful and beautiful in Sung period (960-1277); extremely low and delicate relief typical. Bowls, boxes, chatelaines, chopsticks, cups, ladles, spoons, saucers, ornaments, statuettes, scholars' articles, hair ornaments, scissors, sacred vessels, table and toilet wares of silver or bronze with silver inlay. Pierced balls for incense or perfume suggest the Moorish balls of Spain though of different design. 13th Century—*cloisonné* enamel with silver bands. 14th Century—inlaying on small vases and art objects extremely delicate; fantastic and rural designs predate the French *chinoiserie.*

Little silver inlay on bronze since 16th Century. Entire table-services of silver, gold, or jade, used since 17th Century. 18th Century—great luxury, especially in Ch'ien Lung period (1736-96); many charming trifles: snuff boxes, opium boxes,

(*Continued on page* 98)

Mattie Edwards Hewitt

Heather and the various trailing or spreading forms of Juniper combine excellently as ground covers on exposed, sunny slopes. They are perfectly hardy and offer abundant variety in color, form and general effect. Here they are shown in the Henry Sanderson garden, Oyster Bay, N. Y.

Plant Carpets To Spread On The Garden Floor

P. M. Koster

WHEN all has been said and done, Nature is the greatest of landscape architects. Her colors never clash, her compositions are marvels of design. From an overwhelming wealth of material she selects wisely, planting sparsely here and lavishly there. From tallest tree to lowliest creeper, each is fitted perfectly into its place. Her effects are as varied as the materials which enter into them, but of them all perhaps none is more successful than that achieved with ground-cover plants.

What a varied company they are, these broad plant carpets spread across otherwise bare ground! Trailing-arbutus, Bearberry, Wintergreen, Buttercup, Violet, Clover, Daisy, Goldenrod, Aster, Dwarf Blueberry, Troutlily, Anemone—running the whole gamut of colors and forms. Their splendid example may well be taken to heart by us in planning our gardens.

To be sure, in some ways we are more exacting than Nature; we want a more lasting effect than many of the native wildflowers offer us. We want evergreen effects, attractive all the year round, or perhaps a blanket of flowers and attractive foliage. The design of the garden may demand ground covers of even height in some places; in others a billowy effect may be sought. The color of flowers and foliage must stand a severe test; some, beautiful by themselves, lose their charm when shown in masses. Dead flower stems or unsightly remnants of plants are ruled out. The plants must be able to stand tramping upon so that we may pick weeds if necessary and keep them in shape.

We need ground covers some of which will grow in dense shade, others in full sunlight and others again in partial shade. They must be long-lived; once planted, they should be beautiful and useful for a succession of years. If empty spaces occur, the plant itself is expected to fill them and crowd out presumptuous weeds.

Too seldom are conditions created that are favorable for the plants to develop all these qualities. We will select, if we know or are properly advised, the right kinds for shady or sunny places, but as to soil, most people go to very little trouble. In many instances the plants must be contented with mediocre soil, be it light or heavy or sandy.

To obtain the best results, proper care must be taken of the soil before planting. It should be well plowed unless the roots of existing trees prevent such treatment. Especially in low places the soil must be plowed or spaded deep, to secure the proper drainage. If large spaces are to be covered with ground covers, it is advisable to sow a crop of Cow Peas or Hairy Vetch or Oats, in order to supply humus to the soil and at the same time destroy many weeds; very few need fertilizers.

Ground covers are particularly useful where grass refuses to grow, as under big trees and in shady places, near steps and stone walls and fences or other places inaccessible to the lawn mower. They are of value as a border between the lawn and the house or between our hedges and the walks; as well as next to our evergreen groups or rock garden. In all these places grass may be just as beautiful but the proper care of grass in such places takes a great deal of time, whereas the proper ground cover will not need any attention.

In larger gardens ground covers are an element of beauty. An embankment planted with them, a clearing between the woods covered with a sheet of flowers in spring or summer, accompanied by lovely foliage, is very beautiful. Separate groups of conifers or shrubs, not too far away from each other, may be effectively joined in one planting by a suitable ground cover. An edge of ground covers of different greens and flowers, between the lawn and the woods, enhances the design and color of the garden.

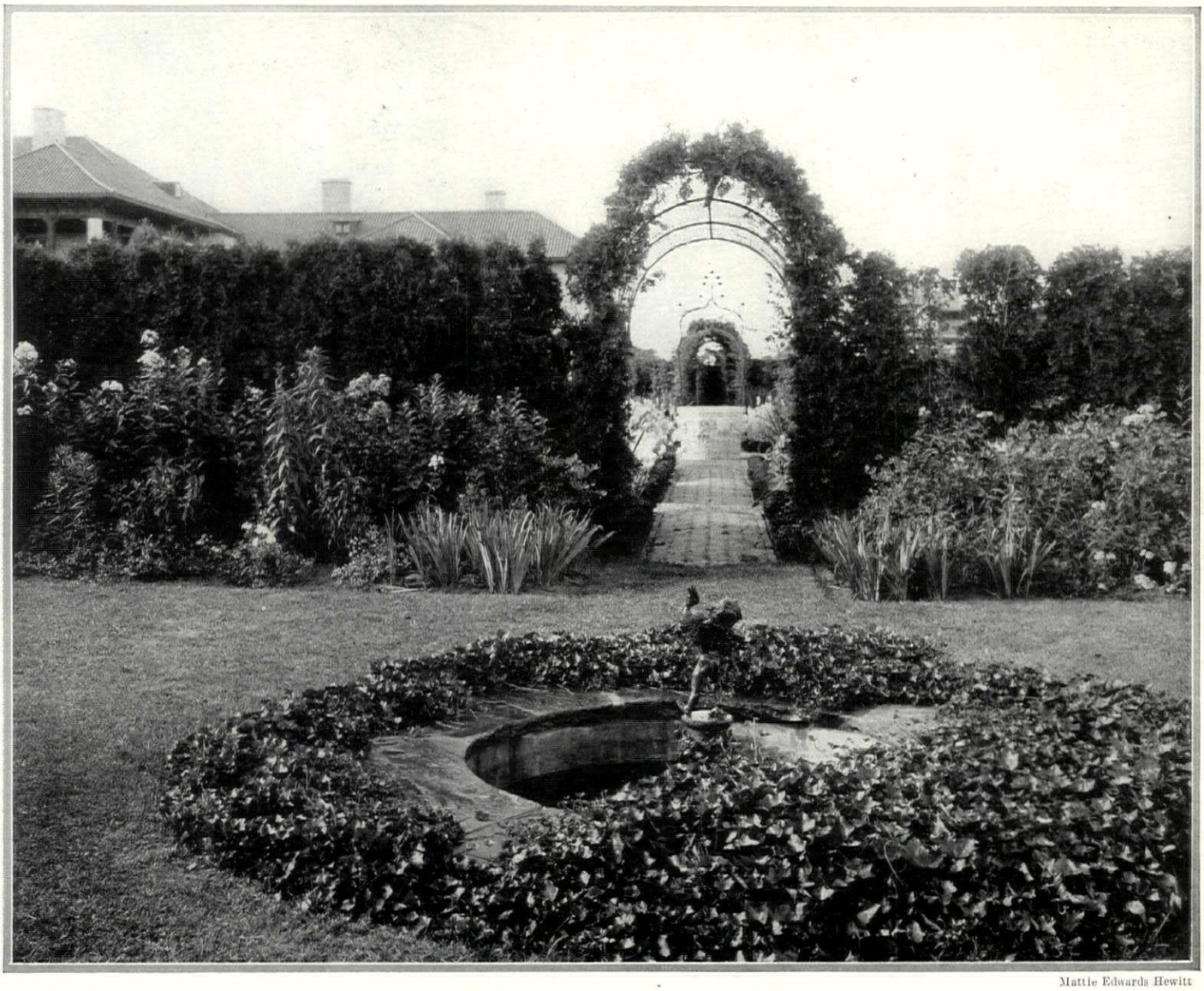
There are several other places where the skillc' landscape architect, knowing ground covers well, can plant them successfully; by doing so he will take the garden out of the class of standardized types. Nature certainly does not standardize, and gardens should not; the available material to make them is too rich to justify such action.

Which are the plants answering the many requirements outlined thus far? There are too many for all to be mentioned. Some are now extensively used, like *Pachysandra terminalis*, the Japanese Spurge; it is almost as indispensable as grass. Others are used here and there but they are always beautiful if used right. To give a comprehensive view of the principal ground covers they may be divided in two groups, those which are evergreen or nearly so and those which are not. This classification will render it possible to make an intelligent choice. Let us first consider evergreens.

Arctostaphylos uva-ursi, Bearberry, is one of the most interesting ground covers we have; it is widely spread in America and the Highlands of Scotland and Wales are covered with it. It is a low trailer, forming a dense mat of dark green, leathery foliage, blooming with small clusters of pink flowers from April until July. A scarlet fruit

(*Continued on page* 116)

For a moderately formal year-round effect there is much to be said in favor of English Ivy. Grown as a ground cover, and protected with leaves or a few evergreen boughs in winter, it is hardy well up into New England



Mattie Edwards Hewitt

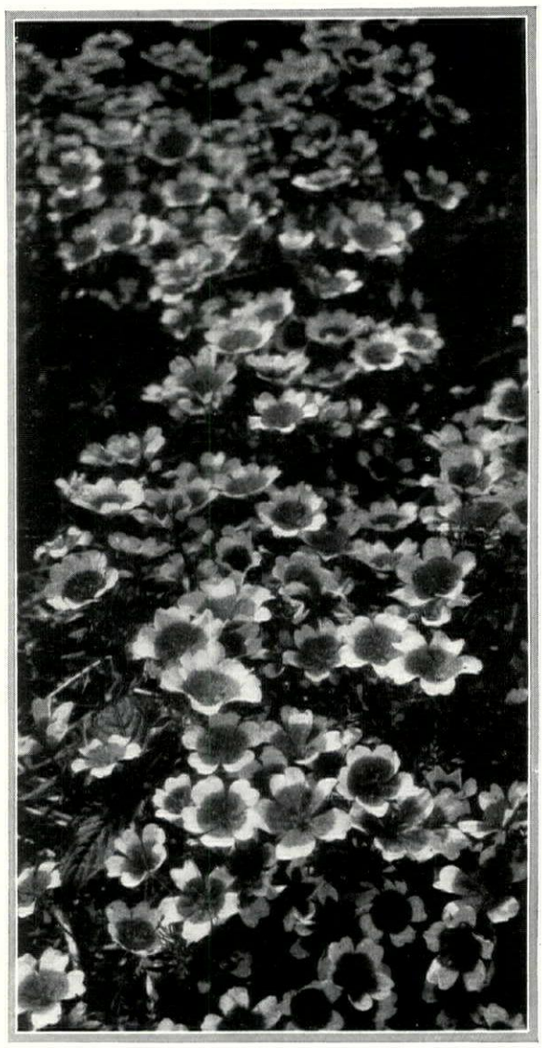
Worthy Annuals To Enhance The Rock Garden's Corners

Louise Beebe Wilder

KEEN rock gardeners, I find, as a rule are rather sniffy about the use of annuals among their precious mountain plants. As a matter of fact, if we are making a strictly alpine or high mountain collection—if consistency is our jewel—annuals must indeed be ruled out. Mr. Correvon in his fine new work, *Rock Garden and Alpine Plants*, has this to say: "Annual plants, so abundant in the vegetation of our plains, are almost entirely missing above the snow line. Up there the short summer does not allow these plants to accomplish in one season the complete cycle of their existence. The only species which are not perennials are some Euphrasias, some Louseworts, and one or two Gentians."

But—and there must always be many buts where lowland rock gardening is concerned—here as elsewhere circumstances alter cases; in many instances annuals may be used with the greatest propriety in the rock garden, even a quite exclusive one. They may be used to repair the ravages of an unusually savage winter season, or to fill blanks among the hills while the toe of one's stocking is filling with the wherewithal to buy good, durable—if expensive—perennials. Again annuals may be called in to do yeoman service in carrying color into the summer and autumn months when rock gardens are not commonly at their most colorful, and not the least important of their missions is to spread a bright coverlet over the bare spaces which have been left by the subsided spring bulbs.

Yes, certainly there is almost as much reason for annuals in the rock



From California comes a charming Poppywort, Limnanthes douglasi, whose slender, half trailing stems carry many large, frail blossoms that are white with a yellow base. A strong growing annual that self-sows and tends to override less sturdy neighbors

Donald F. Merrett

Baby Blue Eyes is the name often given to the Nemophila, a well known California annual. One of the cheeriest species is N. maculata, a little plant of spreading habit that does well in a shady place and bears white flowers with a purple spot on each petal

garden as there is in the level beds and borders of the main garden. But—and this is a very large but, indeed—not just any annuals of dwarf stature will do by any means.

Certain low-growing annuals, by reason of an appearance of finish or sophistication —an appearance more readily sensed than described—or because of their association in our minds with the ordinary border world, are not suitable for use in the rock garden. There is of course no hard and fast rule governing the use or exclusion of certain annual plants in the rock garden; it is merely a matter of taste, a sense of fitness that admits some and shuts out others. For instance, it seems very plain to me that dwarf forms of Zinnias, Marigolds, Snapdragons, Ageratums and the like should be banned, and likewise such naturally low-growing plants as Sweet Alyssum, Candytuft, annual Pinks, Dwarf Morning Glories, Mignonette, *Phlox drummondi*, Nemesias, Nasturtiums, Petunias, Verbenas, Lobelias and so forth. These belong essentially to the larger masses of the borders.

On the other hand there are numerous plants that look at home among the stones of the rock garden and among its small citizenry. But few books on rock gardens identify them for us. Mention may be made of one or two, seldom more. I have been searching out and experimenting with these small annuals for many years and the information that follows is the result of these experiments. No one will want to grow them all in one season; indeed it is not possible to find them all in seed lists every year. They come and go. But many of them have great charm and it is interesting to make the acquaintance of a few each season until it is known which will best fill our requirements. Many of them, it will be noted, are California wildflowers and among these are some of the very prettiest.

As in the case of all annuals, the chief necessity of the dwarf kinds is plenty of air and elbow room. They should be thinned out drastically as soon as they are of a size to begin crowding each other, and again if later they seem not to have full space for healthy development. They must be watered, weeded and kept from seeding if a long season of bloom is sought. Some it is best to start indoors or in a frame, transplanting them outside when settled weather arrives; some will self-sow and be on hand for years once they are admitted; nearly all require full exposure to the sun; some are sweet-scented and therefore doubly welcome. All those named below justify admittance because of some charm or for the gaiety of their blooms. A few biennials are included.

(*Continued on page* 112)

Donald F. Merrett

Any sunny place suits Venus' Navelwort, a dainty, graceful small plant that grows about ten inches high. Its profuse milk-white flowers and soft gray foliage give it a pleasant, soft effect. It is a native annual of Spain and Portugal, flowering during the summer and autumn

Pentstemons That Bring Rainbow Colors Into The Garden

Anderson McCully

IT is difficult to understand why the Pentstemons are so little known in American gardens. Like the fabled rainbow's end that leads us right back to our own dooryard, many of them are brought back to us from European nurseries, though they are all, with the one Russian and Rocky Mountain exception of *P. frutescens*, strictly American plants.

Pentstemons resemble the rainbow not only in the end, but also in their brilliant range of color—no more striking true blues, reds, violets and purples are found in the plant world. There are also a few whites, creams and golden yellows. Their season of bloom is long and comes to its greatest best late in summer and on through fall. High summer's heat seems only to call forth a fuller burst of glory—so great sometimes that weaker plants die with the effort, though leaving seeds that may be sown for a goodly progeny to follow.

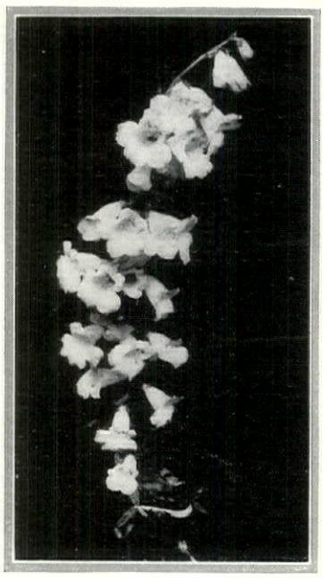
There are at least one hundred and fifty American species, besides the splendid race of horticultural hybrids. Among them are so many differing habits, forms and colors that we can use them all the way from tiny rock garden crevice to largest border. One thing they do ask for is sun. The hybrid *gloxinia* varieties and some of the Mexican types need considerable winter protection in coldest gardens; but when this is not readily available, they may be treated as annuals by sowing seed indoors or in a frame during early March.

The taller border types, particularly the hybrid forms, do best in rather a deep, rich soil. The lower growing high mountain forms are often more pleasing when given rather spartan treatment. In nature many of them come from talus slopes and other stony homes of meager fare. Too rich a diet tends to leafage rather than bloom. Many of the rock garden kinds have a shrubby evergreen, or semi-evergreen, prostrate or low habit, such as *Pentstemon barrettae, P. newberryi, P. rupicola* and *P. menziesi*. Others grow more after the manner of the Harebells. Then among the larger border plants are several goodly sized shrubs, the golden yellow Snapdragon Pentstemon (*P. antirrhinoides*) reaching sometimes five feet with considerable spread. There is one climbing type in the vermilion Heartleaf Pentstemon (*P. cordifolius*), that flings itself about much after the Honeysuckle manner.

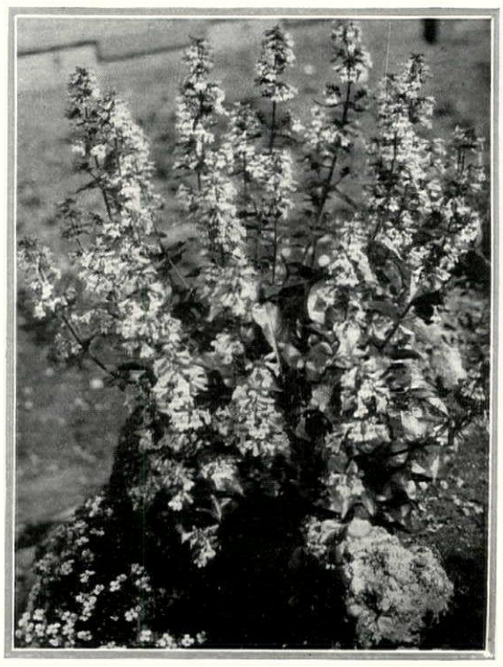
For a medium tall border or bedding out plant, probably none can surpass the hybrid strain built up largely from *P. hartwegi* and *P. cobaea*. Sensation is a good variety among these. The beautiful Gentian-blue plant that some nurseries offer as *P. heterophyllus* would make a splendid edging and is much hardier than the foregoing.

When it comes to naming names, we perhaps tread upon one of the real reasons why Pentstemons are not better known in gardens. Not only do no two nurseries seem quite to agree—no two botanists are apparently willing to bestow the same name upon the same plant. They use the same names and the same plants, but they just seem to shake the bag all up again and take a fresh drawing. I believe one reason for this is that the Pentstemons are widely spread through our western mountain ranges and are prolific seed bearers, making numerous natural crossings; then climbing to dizzy heights, descending to salt water, or creeping over interior deserts, each of them will breed just a little different form and color and habit. Where possible, choose your plants after seeing the blooming ones in the nursery. Otherwise read the description of your own dealer carefully to be sure you are really getting the plant you wish.

It is not a hard and fast rule by any means, but I have noticed that, generally speaking, the true blues come from the North or from glacial moraines, and the brilliant reds and brightest yellows from Southern California and Mexico. The lav-



From midsummer to frost the flower stalks of P. gloxinioides grandiflora, two feet or more in height, are richly decked with large, brilliant blossoms of red, carmine, cherry, pink, lilac or violet. Treated as a perennial, it needs winter protection in northern sections



P. diffusus is the bushy Pentstemon, suitable for either the border or a large pocket in the rock garden. It is a rather leafy, upright species eighteen inches high, with close panicles of blue to violet-purple flowers in June and sometimes continuing through September

enders and purples seem rather intermediate, or extending principally north with considerable mountaineering wanderlust. It is rather a rough guide for garden hardihood. The true alpine forms will of course prove quite hardy.

Pentstemons are very easily raised from seed sown in the usual way. The more tender ones may be wintered over in a frame. They may also be grown from late summer cuttings, or in many cases, from fall division. Seeds, however, are the more usual method of propagation.

Red To Pink Pentstemons

P. oreganus, pink to rosy purple.
P. richardsoni, pink to red.
P. rupicola, flaming reddish rose.
P. barbatus, scarlet.
P. centranthifolius (Scarlet Bugler), vermilion.
P. parryi, smaller than above, flaming scarlet to vermilion.
P. torreyi, vivid scarlet.

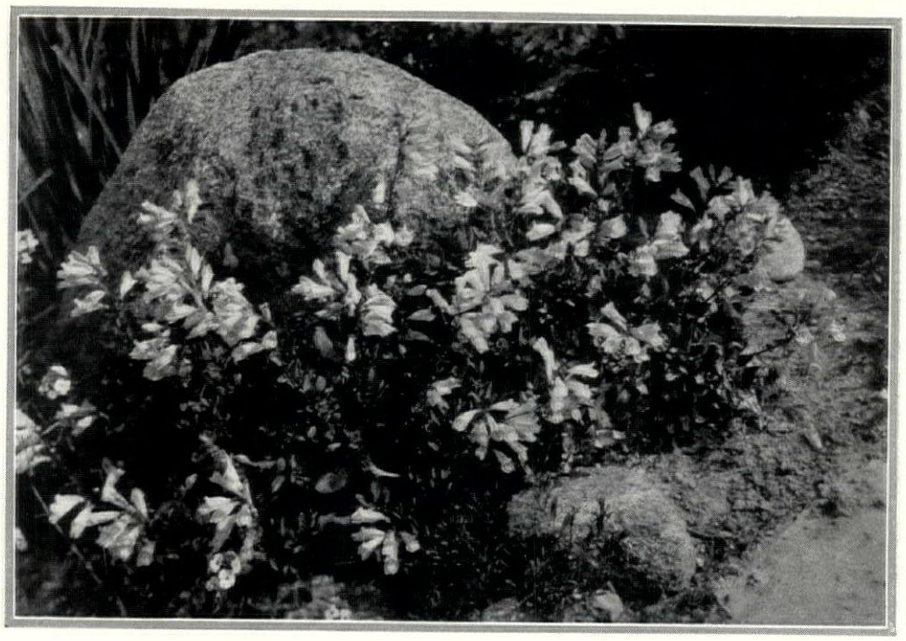
Yellow

P. antirrhinoides, golden yellow, evergreen shrub, tender.
P. deustus, yellow, red-brown throat, eight-inch shrubby creeper, hardy.

Good Blues

P. alpinus, clear, a fine color.
P. aridus, vivid, clear.

(*Continued on page* 110)



(Top) Among the evergreen and semi-evergreen species, P. barrettae is especially effective among rocks where it forms a dense cover. Its silvered, blue-gray foliage is surmounted by erect flower stalks some twelve inches high, bearing handsome lilac blossoms touched with pink and purple

The hybrid forms of gloxinioides, of which there are many, are not hardy without winter protection in cold climates. Where such treatment is not readily practicable they can be treated successfully as annuals by sowing the seed indoors or under glass early in March, transplanting about May 1st

(Above) Pentstemon menziesi growing well in a moraine. The form P. davidsoni, closely resembling the type, has fat little rounded leaves and large, dark purplish blue flowers. This species is dwarf and prostrate, a true alpine that is well worth having. It needs full exposure to the sun and flowers in July and August

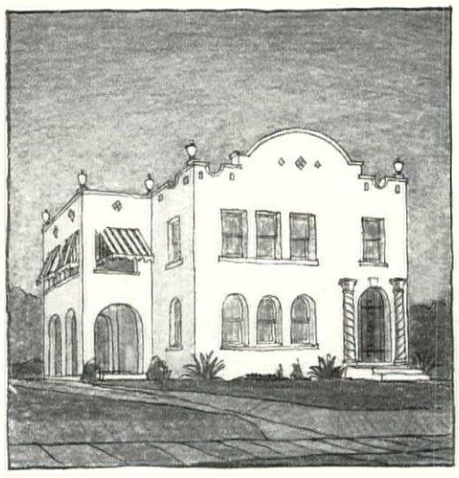
The typical Spanish street scene is rich in a variety of local color and happy, haphazard motifs under the influence of which architecture can take liberties that are impossible in this country

Characteristics Of The Spanish Style Interpreted For America

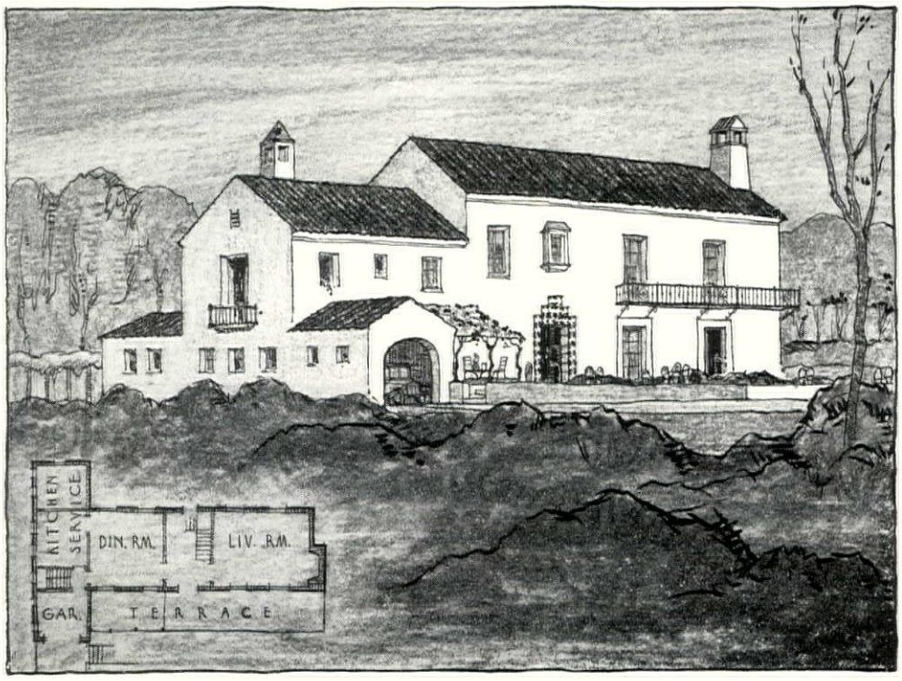
Gerald K. Geerlings

"NO wonder you told us we might see Spain, but not her houses! It is a continuous fiesta for all five senses. And such a medley of colorful life—or should I write, lively color? It is exactly what you predicted: the family is always being so much engrossed by what happens that they never observe the background. In the morning we are always getting mixed up in traffic tangles of goats in the streets as they try to evade being milked. Burros with huge panniers and lounging owners atop, shunt us from one side of a narrow street to the other. The approved spot for several chairs draped with all manner of clean, soiled and amazing clothing is on the street in front of the doors, unless several good wives are seated on them for energetic gossiping duties. When occasionally we remember to concentrate on walls we are too fascinated by the bits of posters depicting the carnivorous qualities of past bull fights. . . . The glimpses in the patios at Cordova were tantalizing, and looked as though they would fit our purse and taste. But the big show places that are open to the public, like the Alcazar gardens at Seville, are much too rich for our blood. . . ."

A perfectly natural letter coming back from a friend touring Spain in quest of ideas for a new home. Spain is baffling. Even to the trained architect prepared for a galaxy of life and color, it creates a pattern so engrossing that the architectural background seems only incidental. In England life flows by so placidly that its hedges and buildings allow themselves to be photographed by the retina, but in Spain the kaleidoscope requires an analytical motion picture camera which will record what can be reviewed later at leisure. To the traveler (in person or in books) Spain is like the tempting restaurant which offers such an array of appetizing *hors-d'œuvre* that sampling all of them leaves no capacity for the more nourishing courses which follow. The result in our American adaptation has often been to build a box-like shell, encrusted by several dozen imaginative motifs. If these have usually lacked unity and charm it is certainly but



(Above) Designers of so-called Spanish houses in America often fail to analyze the elements of the prototype. Here the plan is too square and the façades mere pages of random Spanish notes



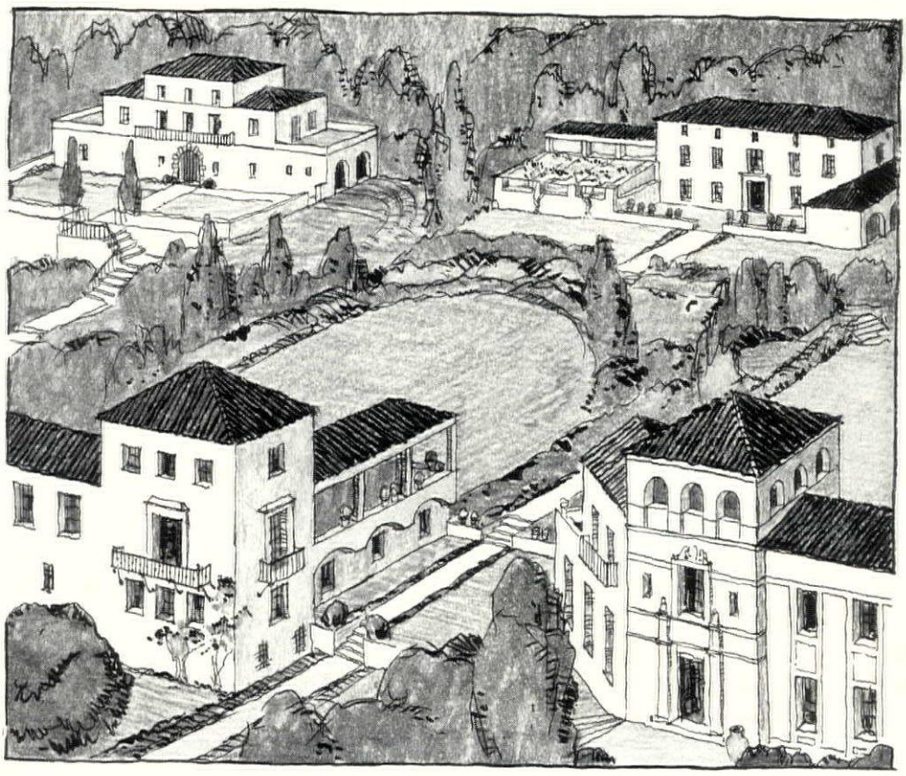
A suggested adaptation provides adequate cross-ventilation and a garage conveniently attached. Simplicity, good proportions and frank usage of materials unite for effectiveness. Kitchen yard is behind the service wing, screened by pergola and planting

little wonder, for they have not been conceived in the atmosphere nor surrounded by the environment of the originals.

The problem of the modern house in America inspired by Spanish tradition must be approached from another angle. The modern trend in architecture follows the lead of sound sense and economics, namely, to insist on forms having usage, and an appearance which bespeaks its purpose. There is a point in the design of every house where there must be a nicety of discrimination between decoration which is genuine and helpful, and ornamentation which is pure affectation, whether it be excused on the grounds of archæological accuracy or not. Just as in modern women's dress inspired by historic costumes it is adaptation of line rather than insistence on discomfort, so too in the design of a house there should be employment of those motifs which will add to the beauty of the house only if they are likewise suited to modern comfort, requirements and materials.

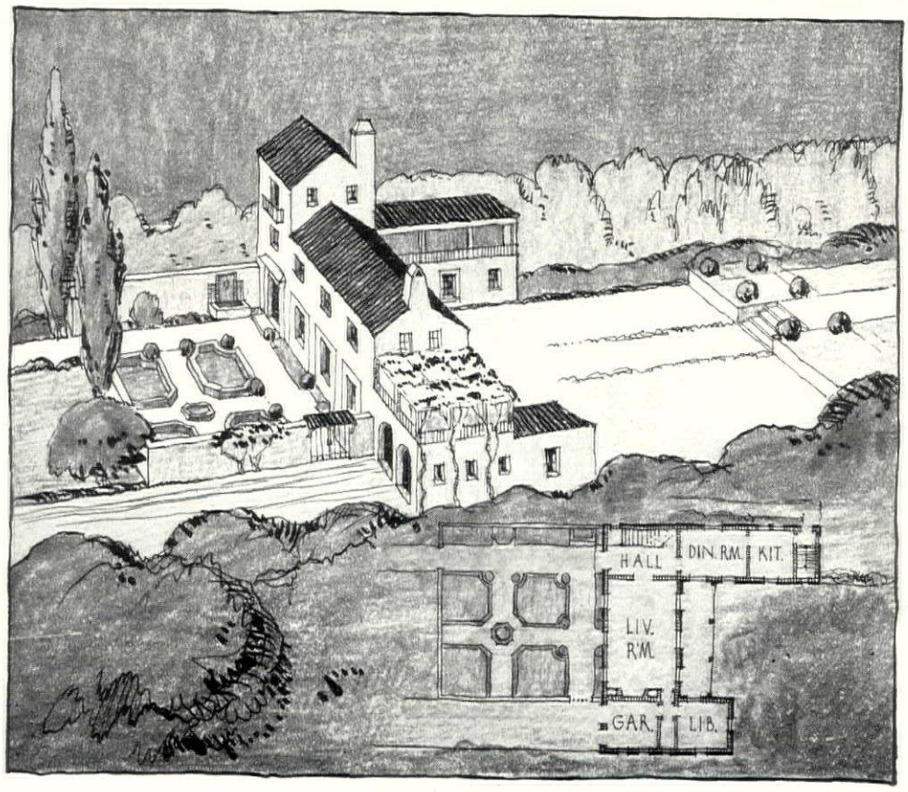
Probably not since the Renaissance has a people been as zealous to discover new forms of forgotten architectural lore. When the recent interest in the Southeast was in full swing, almost overnight a Spanish stage set was created on a grand scale. California has for some years been enriched by entire communities built in this style by talented architects. But in other sections of the country, except for an occasional isolated example (there is such a one in Milwaukee on Prospect Avenue), it has been felt that the style has been inappropriate. If the site be relatively small and hemmed in by homes in other styles, it is quite right that Spanish inspiration should have been discarded. But if one's plot has a width of seventy-five feet or more, and one be more interested in erecting an imaginative house at a reasonable cost than in assembling a series of bona fide details, there is every reason to investigate the architectural possibilities offered to us by the Iberian peninsula.

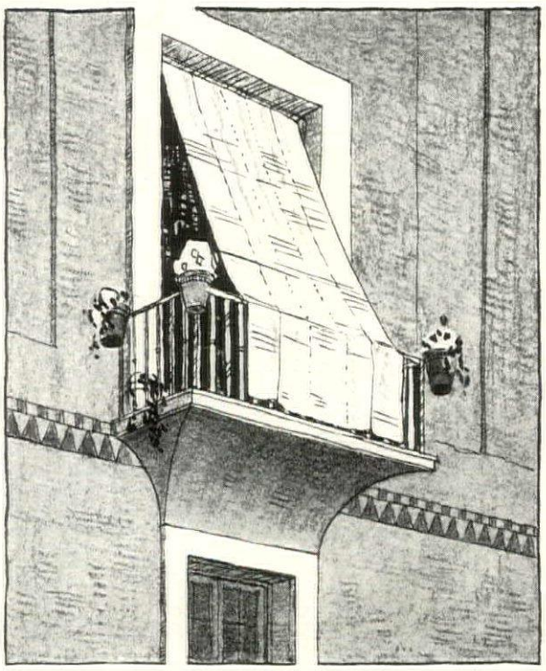
The Spanish, like the Italian, is a style which depends more upon mass and simplicity than expensive roof and details. Even though one decide to "go modern" with a Carbusier sort of domicile, it would still be worth while to browse through photographs of Spanish houses. While in Italy there are a certain classic restraint and a subconscious feeling for arrangement in even the humble architecture, the Spanish seems to have been done with more abandon and dash. The most monumental edifices, when compared to similar ones in Rome, seem never to take themselves too seriously, but have a way of winking at you as though to say, "I know I should behave punctiliously but it is such



(Above) Regardless of site or requirements, a Spanish house will consent to any contortions you desire. Moreover, it can be built in stages, adding rooms or wings from time to time. A variety of arched loggia features make interesting opportunities for garage and porch

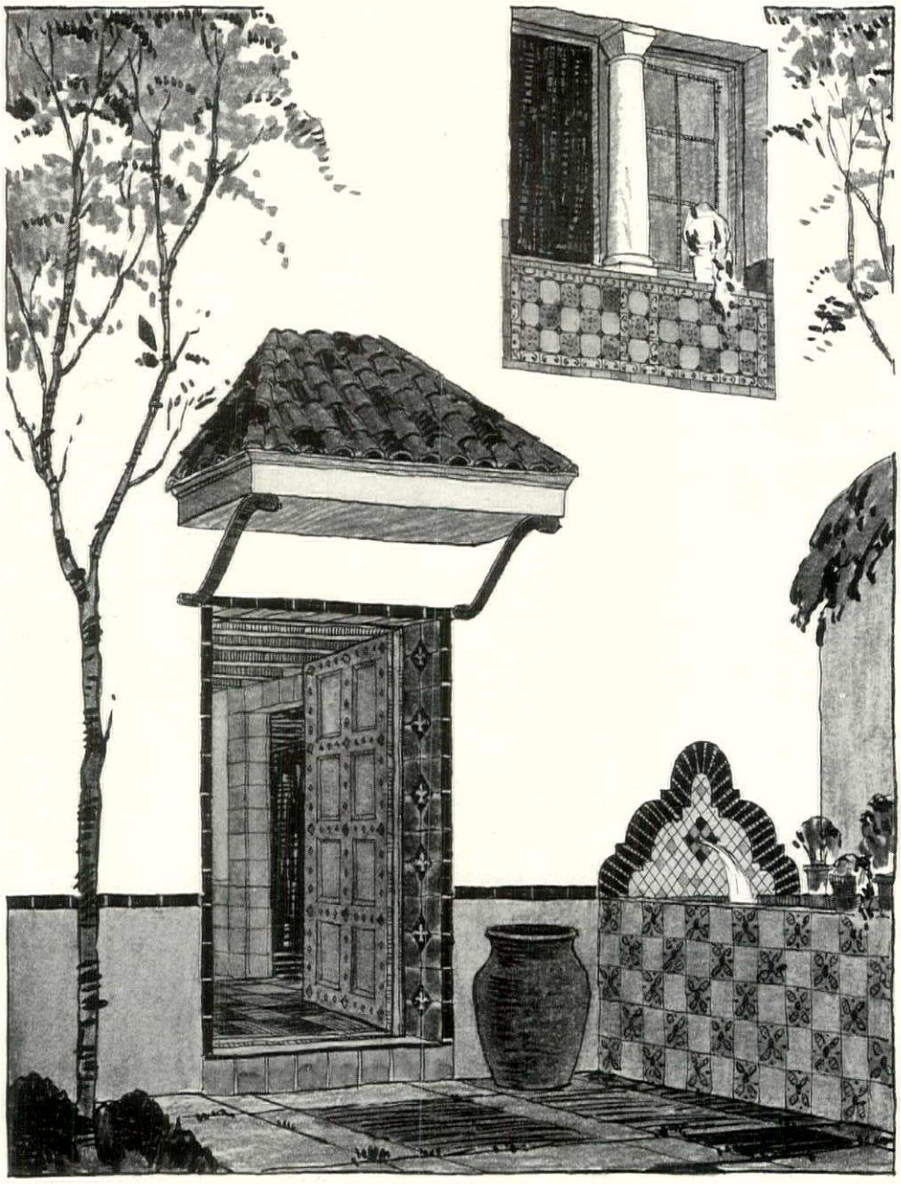
Elimination of a patio because of the moderate size of a house need not check the Spanish influence. An enclosed garden can give a patio-like effect and also offers a solution for only partial landscaping in the early years. Later the ground at the rear could be developed





Here a simple plaster cove rising from a window serves as the base of a balcony around which a wrought iron rail carries plants in rings. An awning suggests the reeded coverings of Spain and the band of tile strengthens a horizontal effect

(Below) To Spain we are indebted for exterior tile—in this American suggestion, on the hood above the entrance, around the door below the window and for the pool at the right of the picture. In such ways interesting effects may be obtained



sport to experiment with life." Domestic work is even more jovial. Some evening if one craves entertainment of a new variety, let him play hide-and-seek with all the amusing pranks which the well-known firm of architects, Chance, Time & Necessity, have built into Spanish houses. There are several gorgeous books by Alfred Byne and Mildred Stapley, one by Winsor Soule and two by Austin Whittlesey, which offer material sufficient to compete with almost any *divertissement* illuminated by footlights. Some of the drawings on page 83—as well as the one on the bottom of page 82—indicate only very sketchily how adept the Spanish would be in lending itself to modern conditions. On the level plot or the irregular slope it can so ingratiate itself that envious relatives will say, "Of course, with a Spanish house you could take advantage of the site. Now with our house we couldn't. . . ."

The material for the exterior of the modern house which is least expensive and which yet offers the most imaginative possibilities, is plaster. While all Spain is not stuccoed over, it comes very near to covering the vast majority of houses, except for the stony sections in the West and Northwest. Yet even in the provinces which are built of half-timber (as the Basque country) or stone, plaster often steps in to fill the rôle more than adequately. The plastered walls of Spain have seemingly been whitewashed as a ritual at least once a year, giving them the crackled appearance of old parchment when viewed under a microscope. A new house cannot secure a corresponding mellowed effect overnight, yet one possibility for lending variation to the color is to mix the ingredients with the plaster. This can be done with shades of yellows and browns.

It is often true that plaster on veteran houses abroad is improved by vertical streaking due to weathering, or a number of other causes which prevent uninterrupted areas from seeming monotonous and dull. To provide against such a condition detracting from a new wall, there are various solutions suggested in the drawings on this and the opposite page. The doorway detail adjacent to the wall fountain (left) has a dark painted base of the same height as the top of the fountain tile. In the same illustration the introduction of tile around the window and door occurs unexpectedly, and in the case of the window, it is a substitute for flowering color during the cold months. So-called "offsets" (surfaces recessed or projecting) in the plaster, as those surrounding the dormer window to the

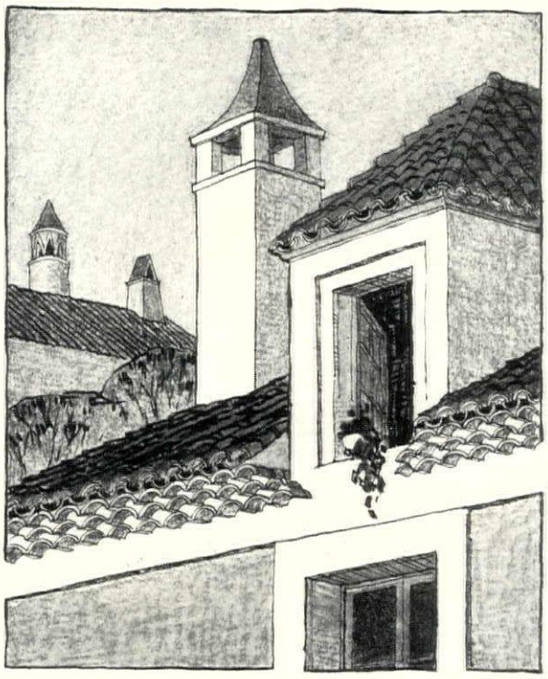
right, and between the windows of the patio drawing below, are helpful in making openings relate to each other.

Wrought iron is the pride of every Spanish house—in Spain. Over here we are apt to think of it as an extravagance which can be added only when stocks and bonds react favorably. But this need not necessarily be the case. If the balconies and grilles are designed with simplicity in mind, the humblest house could be artistically enriched.

With intelligent design even the iron members which make up the utilitarian fire-escape can be so handled that it becomes an asset. Alternating bars square in section with others rectangular or circular, and giving variety to their spacing, can make of the so-called "stock" bars a creditable balcony. It is better in a matter of that character to pay a first-rate architect or designer liberally for a good design which can be economically executed, rather than to pay for expensive but inartistic wrought iron, on the design of which no trained thought or specialized study was expended. A good designer and a good craftsman can create more beauty with an expenditure of twenty-five dollars than a poor designer and poor craftsman can for one hundred. If there is no outstanding local talent available, it is economy in the long run to conduct a mail campaign and have the work created by a first-class, though distant, forge.

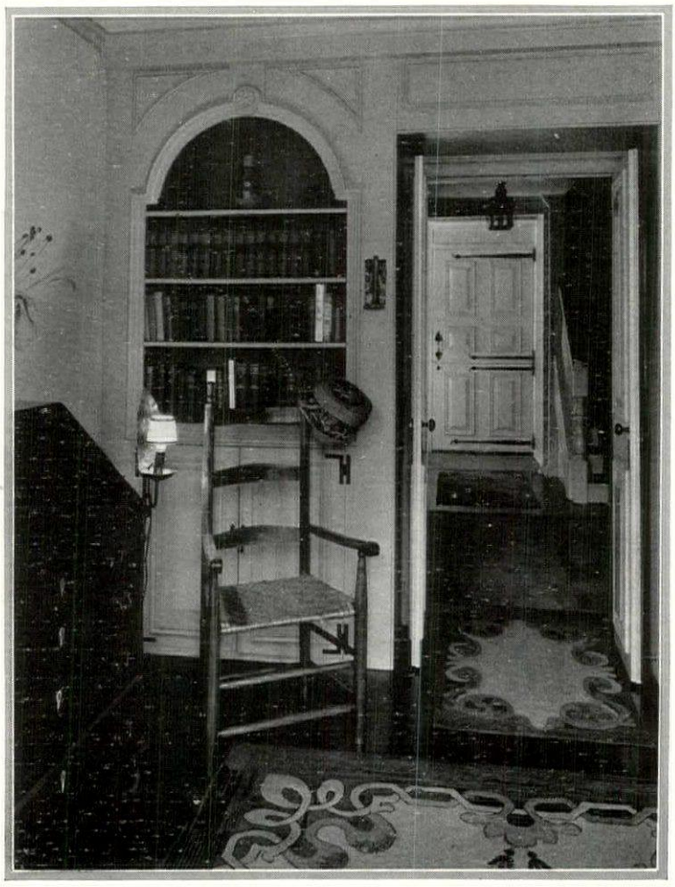
The successful Spanish house, be it indigenous or transplanted, is not to be considered as a thing apart from its planting. Its charm may be due to only the arrangement of potted plants and a climbing vine, or any other simple scheme in order to silhouette green leaves against a light background. On Spanish streets these agencies do not exist, it is true, but in that case it is the "local color" of the inhabitants and their manner of living which act as a substitute in supplying color contrast.

For the home owner it will be a saving financially and a gain esthetically to conceive of house and garden as a single unit. One hundred dollars' worth of wisely distributed foliage will do more than one thousand dollars spent on architectural ornament in making the ensemble the genial delight he intends his home to be. It is only when potted plants, climbing vines, simple water basins, sympathetic shrubs and trees create a human, intimate atmosphere that the householder will be able to say contentedly to himself, "There, by Jove! No goats, burros, oxen carts, bull fight posters or colorful clothes out to air—and yet it can hold up its head with the first cottage in Andalusia!"



Dormers on the house of Spanish influence may be carried up the face of the house wall, with a cornice projection of ordinary roof tile in which each course extends forward over the one below. Three characteristic chimney caps are shown

A patio or the corner of an ell wing makes possible many desirable features such as loggia arch, an overhead vine, outside stair and an overhang like that below, providing contrasting shadows and depths of color. All drawings are by the author



Much sought after yet seldom achieved in the fashioning of a house is a time-worn atmosphere. This is not gained merely by use of old materials or study of past designs, but by such simple expedients as the softening of a line here and the use of a slightly conflicting material there—departures from the meticulous modes of today. Throughout this house it is just such subtle touches as these that have been applied to create the desired spirit sucessfully

Walls in the living room above are plastered, with the exception of the portion immediately about the fireplace—this is paneled, the paneling gracefully merging into the wood cornice which is carried about the room. At the left is a view of a portion of the library, looking to the entrance door

Russell Walcott & Robert Work

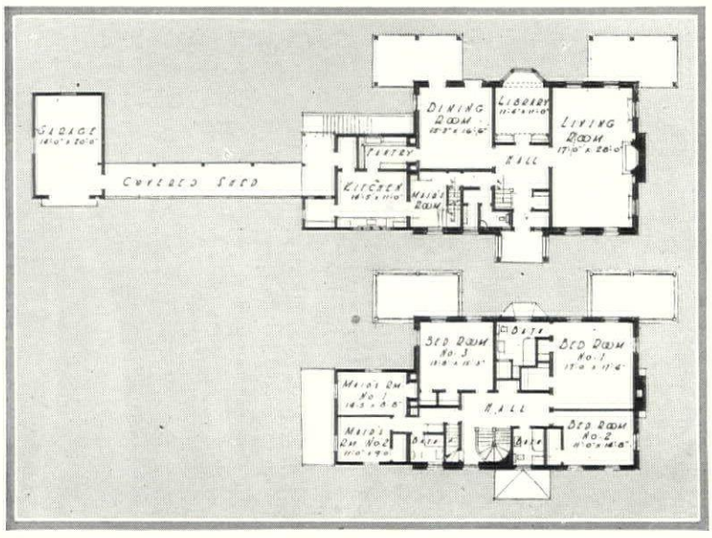
Architects

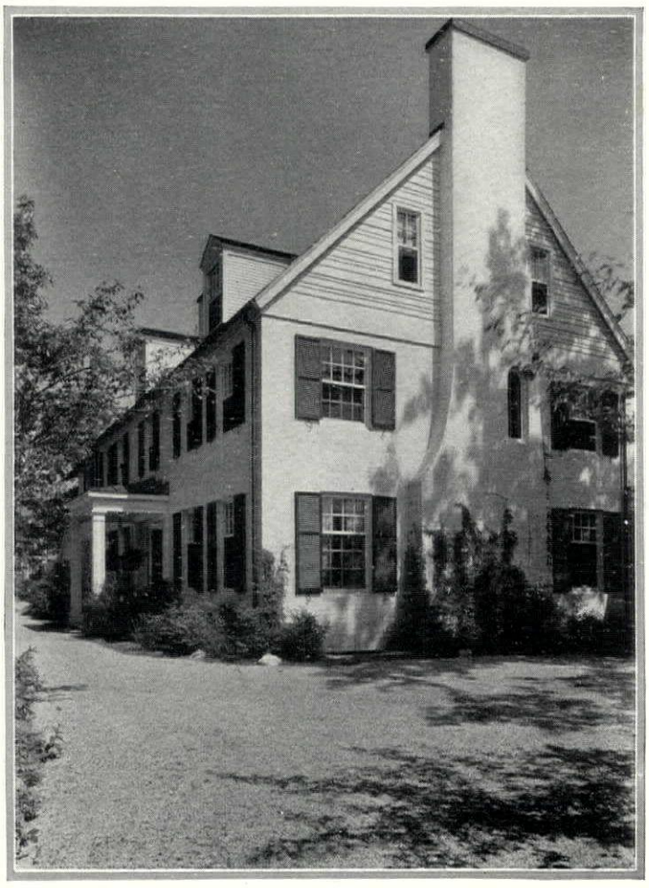
The Mellowness Of Age Reproduced In A House Of Colonial Character

Trowbridge

The service end and front façade of Mr. William T. Bacon's residence at Winnetka, Illinois are shown above. Brick, clapboards and plain wood siding, all whitewashed, have been combined in the walls. The long brick wall forms one side of a covered shed running between house and garage

Opposite the entrance hall and opening from it is a library, conveniently situated for use as office also. The living room occupies the first floor space to the right. Dining room and service are at the left. On the second floor are three master bedrooms and two baths, and two maid's rooms reached by a separate stair





Recent Developments In Building And Residence Equipment Fields

Gayne T. K. Norton

Month by month this page records newly developed materials and devices of particular interest to those who wish to keep the construction and equipment of their homes up-to-date. Each item is actually available for purchase. The names of respective manufacturers will be furnished on request to House & Garden's Reader Service

AN antenna outlet for electric radio sets eliminates outside or inside aerials and the accompanying wiring. Placed in the wall like any outlet, the aerial is contained in the switch box, which has reversible ears for easy installation. Aerial capacity, it is said, is the same as that of any good 50-foot outside aerial. Attached to the plate, which measures four-and-a-half by two-and-three-quarter inches, is 25 feet of wire and a ground clamp to be attached to the nearest water pipe. No lightning arrester is required. Fine selectivity, reduced interference and lowered radio installation cost are promised the user of this antenna.

TWO-FACED SHINGLES

FOR application to the roof, either side up, a fireproof shingle is offered in five colors: pearl gray, gray duoface, red duoface, black duoface and green duoface. One side of these shingles is the natural gray color of the asbestos cement, the other being colored by metallic oxides, which cannot fade or wear off. With butts a quarter-inch thick and left rough and uneven, instead of being trimmed off square, the shingles are 18 inches long, tapered, and come in random widths of six, nine, 12 and 18 inches. By means of color combination and irregular horizontal and vertical lines they will give unusual character as well as fire safety and durability to a roof.

HUMIDIFICATION AGAIN

ANOTHER humidifier! The battle against thirsty air goes on, with firm after firm offering solutions to the problem of air moistening. Now comes the humidifying radiator with hollow sections or coils. Installed as a radiator in any hot water, steam or vapor system, the heating medium flows through the hollow sections, evaporating water held atop each one.

The top of each section is designed as a water trough. Water from the regular supply is run through a pressure-reducing valve to the radiator-humidifier. The valve supplies the proper volume of water. The trough on each section is filled but a quarter-inch deep from an overflow pipe from the trough above. From 20 to 50 gallons a day may be evaporated, depending upon size of unit and type of heating system. One unit will humidify the average home.

Correct relative humidity is automatically maintained. Evaporation fluctuates with temperature of radiator. The colder it is outdoors, the hotter are radiators, and the more water is evaporated. Once adjusted to heat and water supply, operation is automatic, economical and silent. Besides heating system connections, two water connections, supply and drain, are needed. Wood or metal cabinets enclose the humidifier.

FIRE DETECTOR

THERE is an automatic fire detecting system that gives dependable protection through the action of heat upon a thermostatic wire, half the thickness of a lead pencil. This wire is flexible, water and corrosion proof, and can be completely concealed, as can the control panel and current supply units of the system.

Any disarrangement of any part of the wiring or other units, whether arising from accidental or malicious causes, automatically produces a trouble signal. This signal is distinctly different in tone from the fire alarm, and it announces, describes and locates the trouble. The system cannot go "dead" without giving notice.

Operation is based on the fixed temperature principle. When the fire detecting wire is heated at any point to 160 degrees (the heat from a match is about 400 degrees) a fusible alloy in the center melts, causing a short circuit by contacting an outer conductor, and rings the alarm. A broken draft on the oil burner, a forgotten laundry iron, high flue temperature, spontaneous combustion will cause the sounding of a strident gong in time for someone to prevent a little fire from becoming big.

Approved by the National Board of Fire Underwriters and numerous municipal fire departments, this system, in its simplest form, provides adequate protection for smaller homes, or for such high hazard points as garage, basement, kitchen, laundry, etc. in larger homes. Another more elaborate type, that will give protection in every room, is designed for the large country houses, schools and other structures.

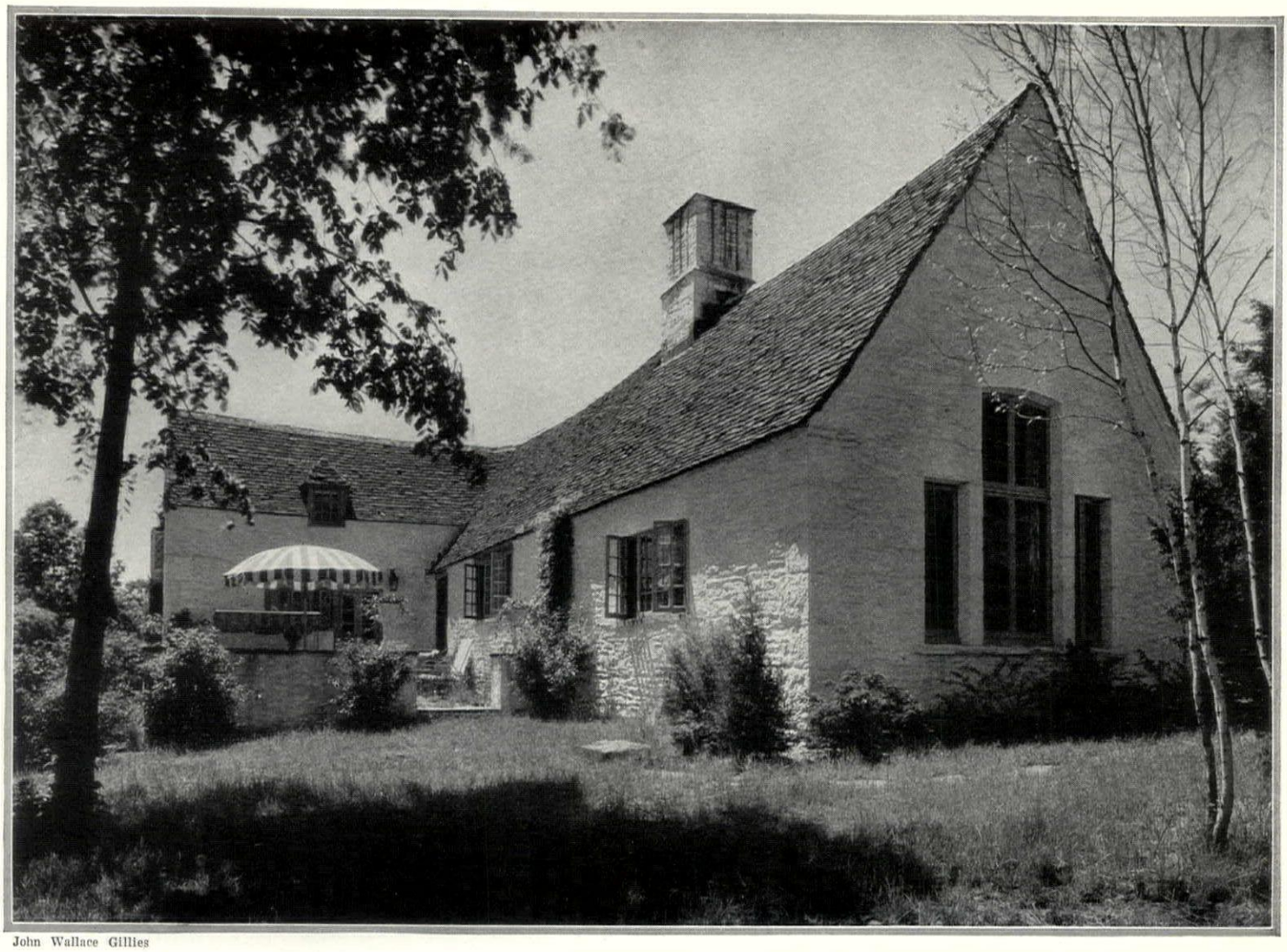
RADIATOR VALVE

A SELF-CONTAINED modulating valve makes each radiator think for itself. Small and finely finished, this new valve silently and dependably holds temperature at a desired point by gradually opening or closing the radiator valve in response to any change in room temperature. It is quickly attached, requires no wiring, and is entirely automatic, maintaining a temperature anywhere from 60 to 80 degrees. One does not have to constantly watch a thermometer and open or close radiator or window; further, one member of the family may have a room temperature of 80 degrees, without disturbing or discomforting others in the house.

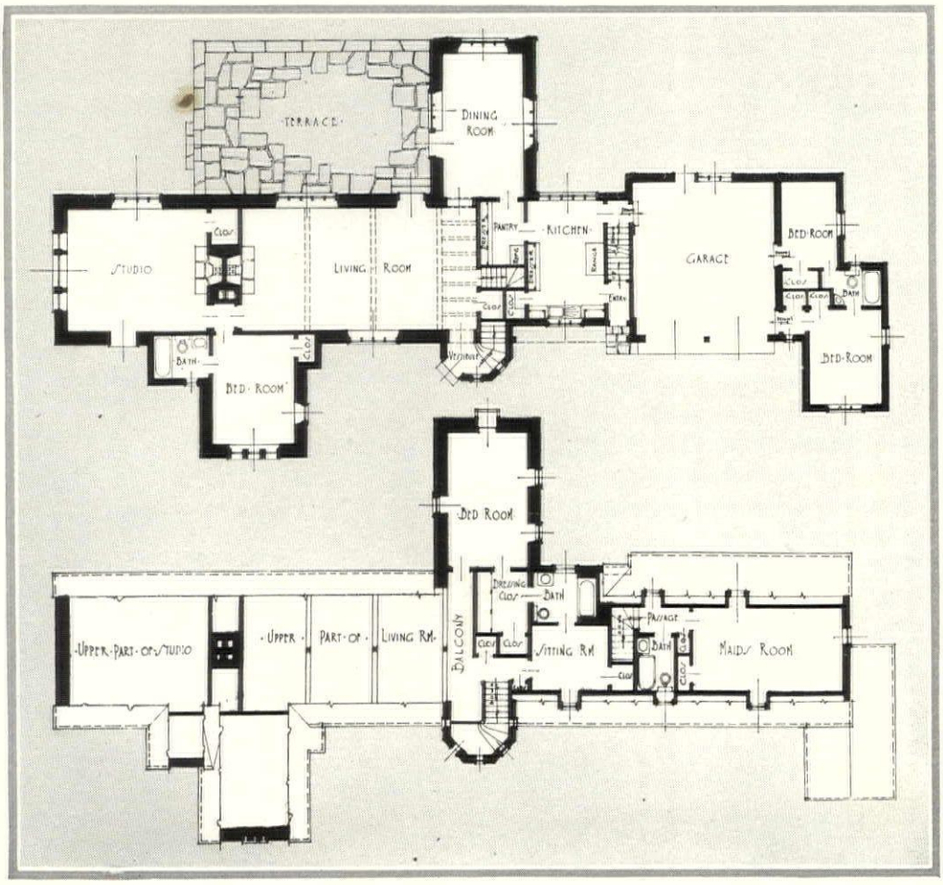
CLOTHES DRYER

A NEW model of an electrically heated laundry dryer has a hanging capacity of 33 lineal feet and uses no more current than an electric fan. Clothes in it are dried with circulating, sterilized heat charged with ozone. They are not only dried, we are told, but also sterilized and bleached. The dryer, shipped, set-up and equipped with extension cord and plug for the iron, is five-and-a-half feet high, a foot deep and three feet wide, finished in silver bronze. A small electric dryer of recess type, soon to be introduced, will serve in the bathroom as a dryer, a heater and an air purifier.

(*Continued on page* 106)



John Wallace Gillies

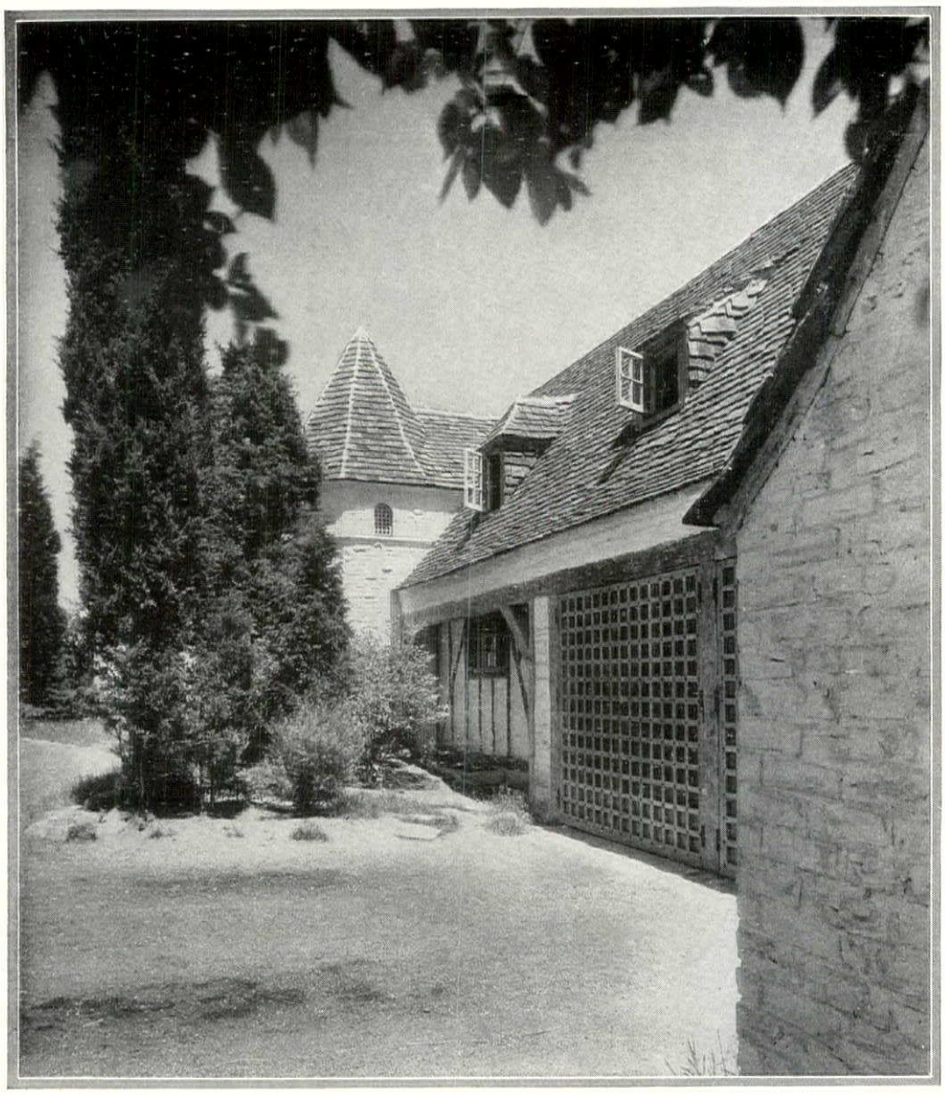


The home of Jay Hyde Barnum, at Silvermine, Conn., occupies the crest of a ridge heavily wooded with Cedars and Birch, a rustic setting into which the rough white-washed stone and blended roof tiles of the house fit admirably.

As it is the home of an artist, the end of the north wing houses the studio. Beyond that comes the living room with exposed timbers, shown on page 59. A guest room is on this bottom floor. The dining room encloses one side of the terrace. Two servants' rooms are at the far end. Upstairs are a master's bedroom, a sitting room and a maid's room

The picturesque quality of this type of architecture and the honest building construction that goes into it have won the Norman farmhouse many adherents in this counry

A Norman Type On A Hilltop Site In Old Connecticut



Picturesque Details Within and Outside A Norman House

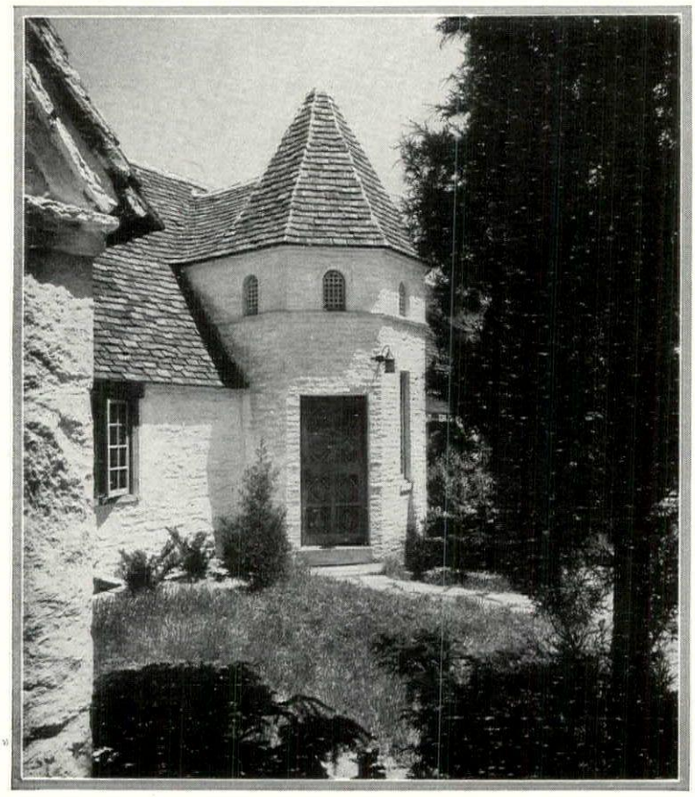
Forster & Gallimore

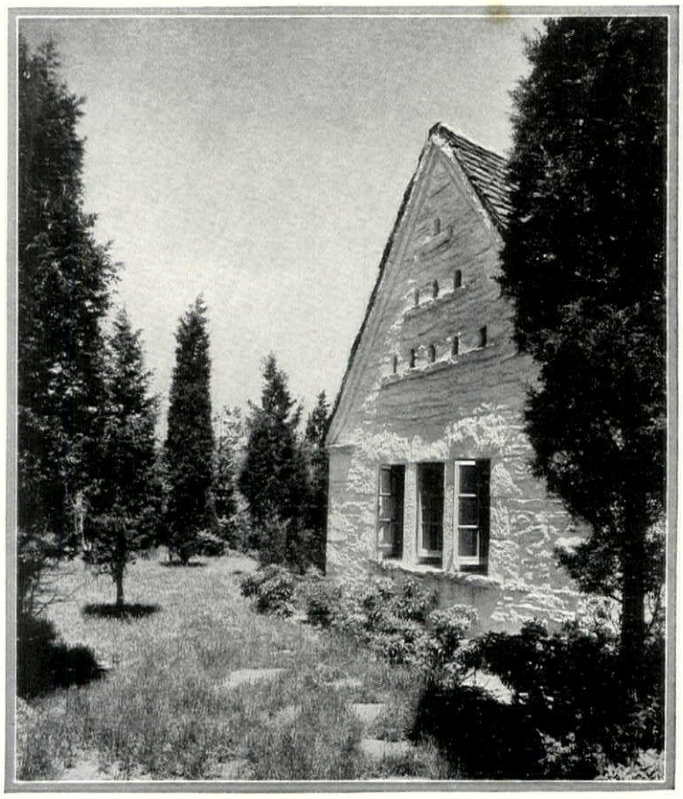
Architects

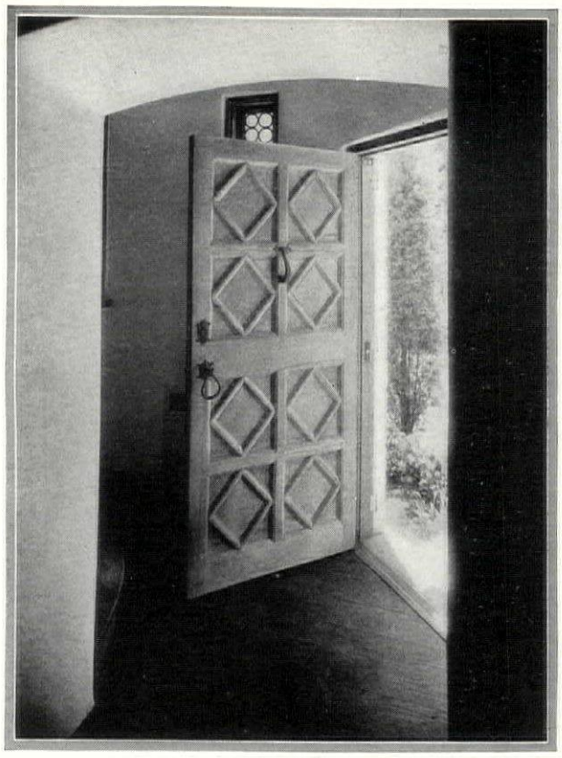
The kitchen of the Barnum house is slightly indented and walled with half-timber. The eaves come down to the support of a long beam that also forms a lintel for the garage doors. These doors are of heavy beams reminiscent of portcullis

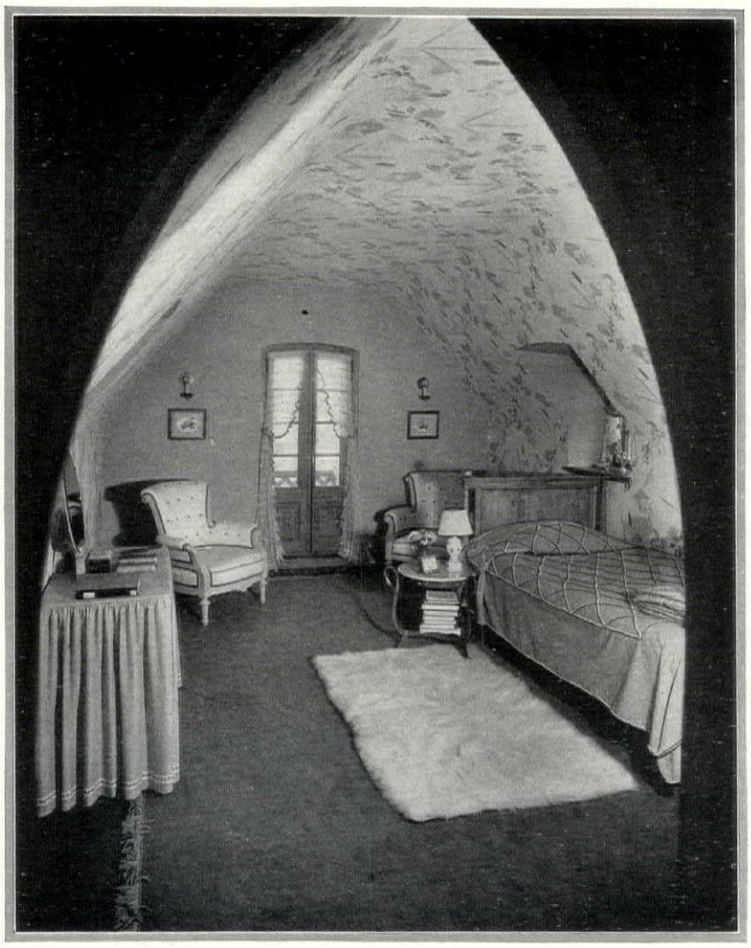
In the tower is set the main entrance and here also are the stairs. The octagonal shape, the protruding stone course below the small windows, and the rough overlapping of the pan tiles lift this tower to the plane of a feature

Below is a view of the gable end of the guest wing where the architect has filled the upper space with openings for a colombier—a necessary part of every Norman farmhouse. He has also managed, by the use of recessed lines of slate under the roof and returned slightly on each side, to make this gable decorative and unusual



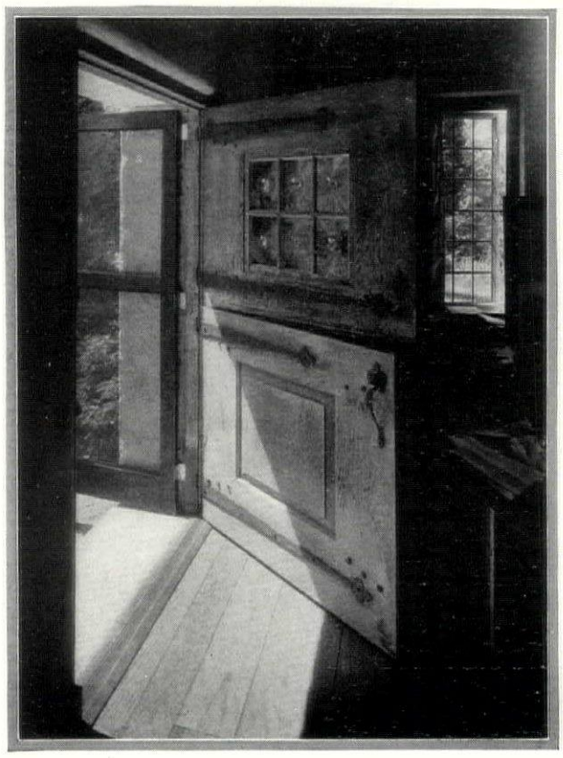


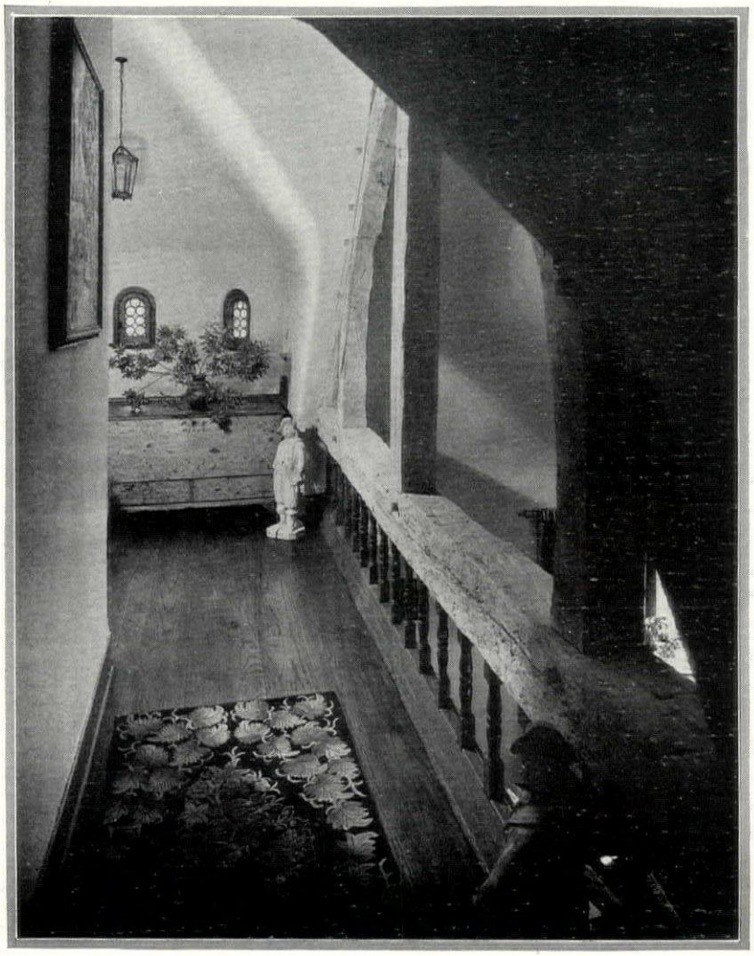




The solid construction of the stone walls is reflected in the timbers of the living room and the doors of the house. Above is the entrance door and below the Dutch divided door leading into the studio.

Above the dining room, and with a balcony that overlooks the valley, is Mrs. Barnum's bedroom. Though the house is Norman in its architectural character its furnishing has not slavishly followed this style. The bedroom is mostly French, but the dining and living rooms are Victorian





Nyholm & Lincoln

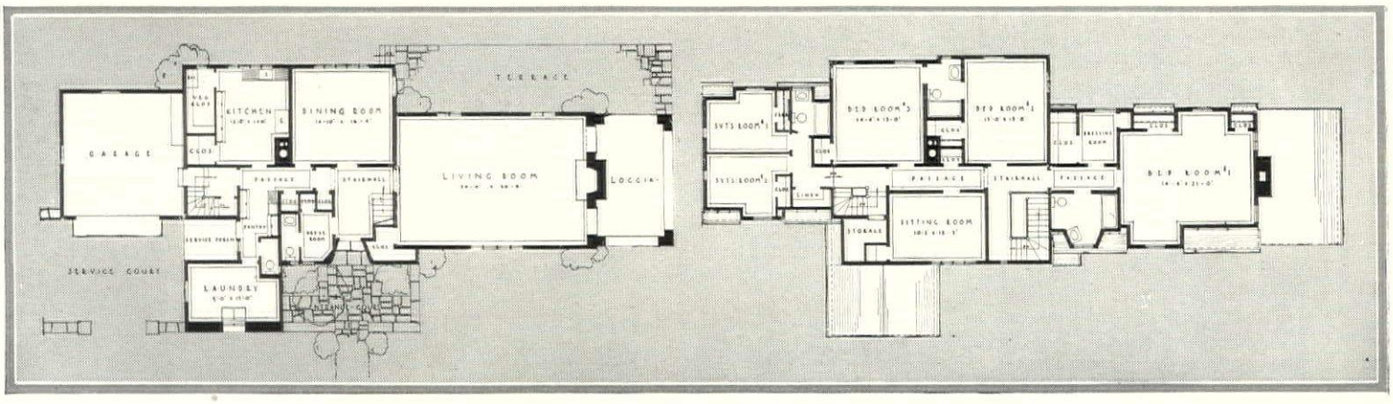
Informal English Character In A Stucco And Stone Residence Of Moderate Size

Penrose Stout, Architect

A rather startling fact about this house is that the dominating exterior feature—the stone faced wing—is occupied by the laundry. The reason for this is that the rear, overlooking lawns and garden, was considered most important

While the segregation of service rooms to one portion of a house, with hall and dining room as liaison points, is not at all unusual, the manner in which these rooms in this house have been arranged to make for convenience and efficiency is worthy of note

The living room has three exposures and opens upon the loggia. In the dining room, a long range of casement windows faces the garden. Three master's bedrooms and a sitting room are on the upper floor, in addition to servants' chambers. This is the Bronxville, N. Y. home of Reginald M. Campbell



Dana B. Merrill

1. Grace of line and the contrast of old-white woodwork with brown velvet and taffeta upholstery combine in this charming small Louis XV settee. From Brunovan

2. Delicately decorated door panels in soft colors are a feature of this lacquered cabinet which is deep cream with a violet marble top and sliding shelves inside. Brunovan

3. On the top and legs of this lacquered coffee table, which is painted a mellow old-white, glows a multi-colored Chinese decoration. From Jacques Bodart, Inc.

4. When not in use the tray becomes the top of the table de nuit, its legs fitting imperceptibly into the corner grooves. Gray with floral decorations. Cassard Romano

5. A semi-circular commode painted soft yellow with delicate chinoiserie decorations after the manner of Pillement would be a delightful color note in a blue interior. W. & J. Sloane

6. This dignified lacquered desk, particularly suitable for a library, is a deep olive green, the chinoiserie decorations picked out in dull gold and rich reds. H. F. Huber

When Furniture Adds Color To A Room

Dana B. Merrill

7. An occasional lacquered side chair gives interest and color variety to a room. This fine example comes in black, yellow or green with dull gold. Schmieg, Hungate & Kotzian

8. For a space requiring an important piece of furniture, there could be no better choice than this lacquered cabinet in pale yellow on a black base. Schmieg, Hungate & Kotzian

9. This distinguished break-front bookcase was photographed empty to show the gold tea box paper lining. Black lacquer decorated in reds, blues and dull gold. Erskine Danforth

10. Another useful and ornamental lacquered piece, colored to order, is the desk-commode, in the top of which is a pull-out panel for writing purposes. Bristol Company, Inc.

11. Unadorned surfaces and simple lines distinguish this Dynamique book table which is green with gold lining. The top tray, painted dull silver, is removable. B. Altman

12. The delicacy of a Chinese Chippendale table is ideally suited to the intimate atmosphere of a small living room. In green, decorated with gold. Shaw Furniture Company

Varied Designs In Paint And Lacquer

The Gardener's Calendar For February

This Calendar of the gardener's labors is planned as a reminder for taking up all his tasks in their proper seasons. It is fitted to the climate of the Middle States, but may be made available for the whole country if, for every one hundred miles north or south, allowance is made for a difference of from five to seven days later or earlier in the time of carrying out the operations. The dates are for an average season.

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
1. Plant stakes are necessary evils; we all wish that the plants would not require supporting, but they do, and we must accommodate them. For Peonies and other fairly low, bushy plants, metal rings supported by three stakes are best. For taller things, use individual stakes.	2. Better get out the sashes for the hotbed and coldframe, and see that they are in good condition. Broken glass may need replacing, and the wood should be painted thoroughly to protect it from the weather. Make sure that all of the putty is tight; it is necessary to prevent leaks.	3. Have you pruned your fruit trees? They will produce if left in a natural state, but not nearly so well. Good fruit is produced only where intelligent pruning is practiced, so your labor will be well justified and repaid. Attend to this job before the first of March, to be safe.	4. Summer flowering bulbs such as Cannas, Gladioli, Dahlias, Caladium, etc., should be looked over carefully. Excessive heat or moisture will start them into premature growth; dampness with a low temperature is apt to cause decay. The ideal is between 40° and 50°.	5. No one can garden well with dull or poor quality tools. This is the time to do any repairing that may be necessary. All edged tools must be sharpened; kerosene and grease will check the rust on metal parts. Repainting of handles and all wooden parts is advisable.	6. All plants that have been in the same pots for any considerable time, such as Palms and other decorative things, should be repotted before their active growing season starts. Top-dressing is the alternative. Use a light, rich soil with plenty of humus.	7. Have you progressed any further than your mind with that Rose garden you have been considering all these years? Each year that you postpone establishing it means that you are losing just that much pleasure. It can be made in early spring and planted then.
8. Sexagesima. Pea Brush, Bean poles and Tomato stakes are necessities of a productive garden. A few hours spent with an axe in the woods will furnish you with these needed accessories. Gather them before they leaf out. Birch brush is twiggy and especially good.	9. Bay trees, Hydrangeas, Oranges and other plants of this type that are used for decoration outside in the summer should be looked over to see if the tubs will stand up for another season. If not, repair them now, paying particular attention to bottoms and hoops.	10. Start to prepare your hotbed now. At least 12 inches of good hot manure will be necessary for making it. Tramp this firm and cover it with about 4 inches of good garden soil that has been well screened and leveled. Let the temperature fall to about 90° before sowing.	11. Deciduous trees and shrubs also require pruning to keep them in good health. Early flowering subjects such as the Lilac or Spireas are best pruned after they have finished flowering along in the spring. Most of the other types can be pruned now before growth commences.	12. Have your trees looked over carefully to determine their true condition. It takes a lifetime to grow good trees but they are subject to injuries of many kinds. A little tree surgery at the right time will save them if it is properly done by men who know their business.	13. Have you ordered your supply of seeds? They should be on hand now, as a safeguard against delay in planting. An old bread tin makes a good mouseproof storage for them. Don't let the seeds get damp—a cool, dry place is the ideal storage until planting time.	14. Samuel B. Parsons, nurseryman, born 1819. If you like golf you should have a practice green constructed on your grounds—some screened corner where you can practice when you want to. Sow it with Fescue and Creeping Bent Grass in equal quantities.
15. E. H. Wilson born 1876. Now that the winter is nearly over let us think very definitely of greenhouse construction. Greenhouses certainly raise the standard of any grounds, whether they be for fruit, vegetables or flowers. Early planning means fewer chances of error.	16. It is much easier to overhaul your lawn mower now in the garage than it will be next summer on the lawn. At least the gear boxes must be cleaned out and repacked with vaseline, and the other bearings oiled. All worn gears, lugs and moving parts should be replaced.	17. Have you ever given a thought to the comforts of our greatest garden friends, the birds? Why not get a few houses where they can nest in safety? A bath for the birds will give even more pleasure to you than it will to them. Let it be of ample size and shallow.	18. Ash Wednesday. Have you studied the merits of a fruit border? No place is complete without one. Raspberries, Currants, Gooseberries, Blackberries, Grapes—all these make excellent border plants for the garden. With a little care at intervals they will yield abundantly.	19. If you do not want to undertake a greenhouse there are numerous styles of portable plant protectors that are helpful to gardening. They should be ordered now, as their greatest value is in the early season. Glass ones are excellent, and there is another kind made of paper.	20. Start now in the greenhouse the sowings of the hardy vegetables, such as Cabbage, Cauliflower, Lettuce, Celery, Tomatoes, etc. Use flats or seed pans for greater convenience, and provide plenty of drainage. When watering, use a very fine hose or sprayer, and work slowly.	21. No garden is complete without some well selected and properly arranged garden furniture. It should be selected with reference to the particular garden and the style of house. In formal gardening pottery is necessary to the completeness of the scheme. Make your selection now.
22. First Sunday in Lent. Garden arbors as they are now made are often very attractive accessories of the garden. If you wish to enjoy them this summer they should be ordered now, as well as the Roses or other vines for them. Both should be set as soon as the frost is out.	23. Flowering plants of all kinds that are wanted for Easter must be started into active growth. By postponing this and then trying to rush them along in the last few weeks the plants are invariably grown too warm and in many cases ruined in the process.	24. All dormant trees and shrubs that are subject to the attacks of San Jose or oyster shell scale should be sprayed with one of the soluble oils or some other liquid specially designed to destroy these pests. Trees that are already infested must have at least two sprayings.	25. Sweet Peas may be started now in the hotbed or greenhouse. Paper pots are excellent for them. After the seeds have germinated the plants must be kept rather cool to prevent their getting soft and weak stemmed. An early start is especially important to Sweet Peas.	26. Before work starts outside you should make an inventory of your tools. Any new ones necessary must be ordered now. Tool designs keep on being improved as well as other things, so look them over. A good, practical variety will do the work quicker and better.	27. Stock plants of all kinds of bedding subjects should now be started into active growth so that the necessary quantity of cuttings will be ready for taking when the proper time comes in the spring. This is a job for the greenhouse or large, well located frame without heat.	28. Sprays of all the early flowering spring shrubs can be cut and placed in water in the house where the flowers will quickly develop. Pussy Willow, Forsythia, Japan Quince, etc., can be forced in this way. Apple and Cherry branches will do well a little later in the year.

○ Full Moon, 2nd day, 7 h. 26 m., evening, E.	First Week: Bitter cold, clear, northwest gales.
☾ Last Quarter, 9th day, 11 h. 10 m., morning, W.	Second Week: Increasing cloudiness, warmer.
● New Moon, 17th day, 8 h. 11 m., morning, E.	Third Week: Destructive sleet storm, snow.
☽ First Quarter, 25th day, 11 h. 42 m., morning, E.	Fourth Week: Cold first half, followed by thaw.

In The Blizzard Last Monday, Says Old Doc Lemmon—

"Wal, Cal Jewett's passed away, an' the old farm in the shadder o' Cooley's Mounting won't be the same no more. Never no more, an' yet I can't help feelin' thet somehow his sperit will sort o' hang around it, watchin' over the cow barns an' the woodpile an' the hayin' medder where the buttercups show so yaller in the June sunshine. For Cal Jewett he was thet kind of a man, up at the crack o' dawn an' busy lookin' after things till the stars come out at night. Borned in the Valley an' scurcely ever out'n it in all his eighty-nine year, he was the farm an' the stock an' the old white house itself, an' they was him. Yep, I reckon his sperit will stay.

"Cal an' me was boys together, though he was older'n me. I mind the way I used to trail after him, like a leetle tacker will, when he sneaked off to go fishin' or huntin' a bee tree. Seems only yesterday, as I look back onto it, an' yet—wal, in the blizzard last Monday they laid him away. . . .

"How peaceful he was as I looked down at him there in the front parlor—white hair brushed back off'n his high forehead, wrinkles all gone from his fine old face. Peaceful an' turrible still. Outside the storm a-whinin' 'round the winder ledges, white an' swirlin'; inside, nothin' only the creakin' of a chair as somebuddy shifted a leetle. An' then, after a long, long while, Mis' Ruscoe singin' 'Rock Of Ages'. . . .

"There ain't many of us left now, Cal. Zeb Cuddeback an' Eli Wilson an' me—thet's purty near all o' the real old stock. We've seed a-plenty changes come to the Valley, ain't we, Cal? Some o' them fields we helped to clear as boys hev growed up ag'in in trees; the wheat's gone an' Taylor's grist mill is fallin' to pieces. The railroad's come an' the telygraph an' the gol-dinged ottermobiles. Folks don't scurcely know whut a good farm team looks like no more, an' there's no tellin' how much higher taxes are a-goin' to go.

"But the hills ain't changed, nor the sunsets nor the fall colors in the woods. The same winds blow down the Valley thet blowed when we was a-pitchin' hay fifty year ago, an' the stars thet we used to see as we follered the last load up the lane to the barn still come a-peekin' out. There ain't no diff'rence in them, Cal; they stand by us, like.

"Mebbe thet's whut they're for; I dunno. Any way we look we see the things we've been brung up with, an' they give us a sort o' stren'th. Birchy Holler Brook an' Old North an' the stone walls climbin' the hills just as they done when we was kids. Our great-gran'paps sot 'em there, buildin' 'em into our blood, ye might say. They won't forgit ye, Cal, them good old gray rocks—'Rock Of Ages'. . . .

"Wal—'bye, Cal."

An early American contribution to the world's best soups . . .

Philadelphia

PEPPER POT!

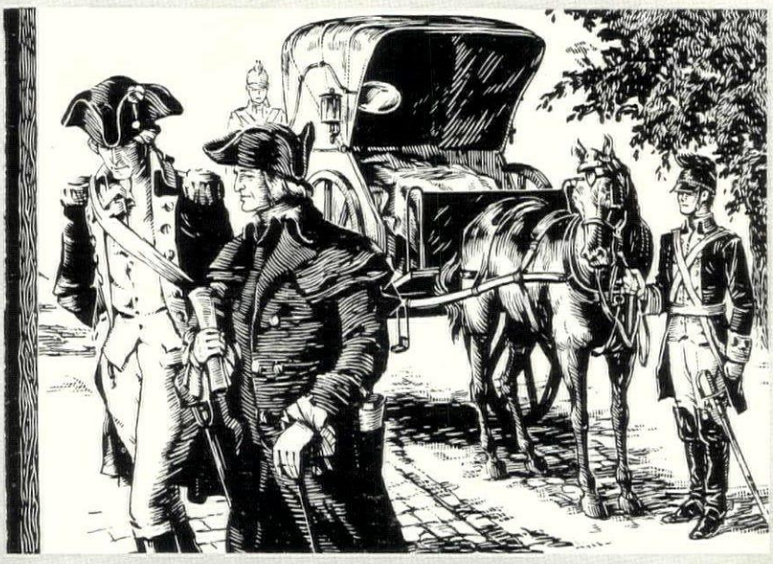
There's a touch of homespun genius about Philadelphia Pepper Pot that endears this famous old Colonial soup immediately and permanently to all who taste it. Rich, substantial, satisfying to the most robust appetites, yet of a delicate savor and zest that appeal at once to those who delight in the piquant and unusual.

Enjoy Campbell's Pepper Pot, made by our special Pepper Pot cook from a favorite old Colonial recipe. A hale and hearty stock, velvet-smooth in texture. Sumptuously enriched with good, solid eating—diced potatoes and carrots, tender morsels of delicious meat, and wholesome macaroni dumplings. And seasoned with the blended aid of ground whole black peppercorns, sweet marjoram, fresh parsley, savory thyme and sweet pimientos.

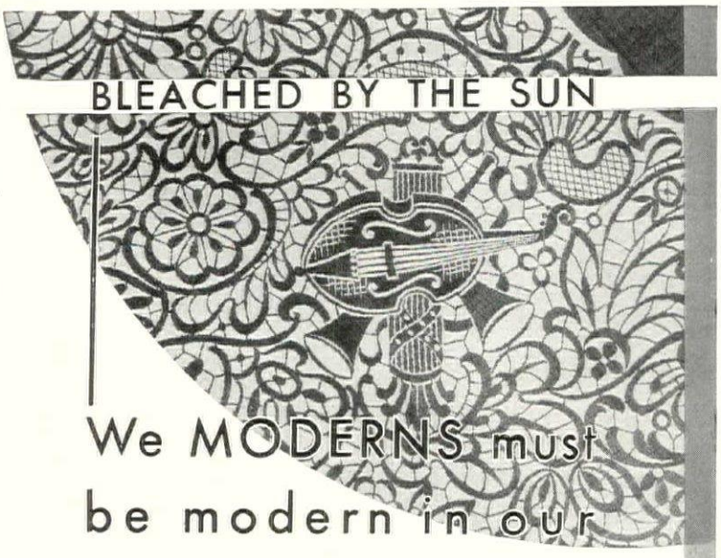
Such a soup as men delight in! Truly one your appetite remembers. Serve it, again and again. At your grocer's. 12 cents a can.

LOOK FOR THE RED-AND-WHITE LABEL

A Man's Soup



General Washington and Robert Morris calling on Mistress Betsy Ross in regard to the New American Flag, Philadelphia, 1776



We MODERNS must be modern in our table damasks . . .

Today, even the dining table turns distinctively twentieth century. So, to the time-tested quality and long wear of "Old Bleach" pure Irish Linen Damasks, has been added this cheery note of modernism. Its gay background of black or delicate pastel shades, contrasted with a silvery curving motif of white, won this cloth enthusiastic comment when leaders of Washington Society recently exhibited their art in modern table setting at the Mayflower Hotel. This design is for sale at all fine linen departments and shops.

Write for interesting "Old Bleach" booklet—Table Talks—a treatise on modern table setting. Enclose 10c for postage.

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"OLD BLEACH" IRISH LINENS

This design—San Marco—is adopted from a collar of Gros Point lace, belonging to a Venetian nobleman—now in the Cluny Museum in Paris.

Silver From The Orient

This antique Persian silver cup, in *repoussé* illustrates the return of a conquering king with his captives and his loot. Shown by courtesy of Dikran G. Kelekian

(*Continued from page* 75)

openwork cases for jasmine flowers, chatelaines, statuettes, etc., were exquisitely made in *repoussé*, enamel, filigree, etc. 19th Century—reproductions of traditional pieces; many types of work, even silver bowls and cups covered with exquisite basketry; occasional European influence.

Egyptian: Ancient Egyptian work, usually in gold. Silver imported from Syria, often worked in forms showing Asiatic, especially Phoenician, influence. Persian, Greek, Roman, Byzantine, Christian-Coptic and Saracenic influences successively. Handsomely lobed bowls of various shapes in the Cairo Museum, 4th Century B. C. Mirrors with elliptical disks, broader than high, made preferably of gold but occasionally of silver, or silver, bronze, wood and enamel combined; handles, long or short, formed like a lotus, hawk, the goddess Hathor, etc. Processional wands of silver and gold, about 4 feet long, the top statuette about 3½ inches high. Coffin fittings, perfume boxes, large craters supported on human figures, etc., of silver, or silver and gold combined. Jugs, cups, bowls and dishes show classic influence from Greece and Rome. Enamel and gilding prominent in Roman and Byzantine periods. Early Christian-Coptic, work largely ecclesiastical; embossing, engraving, piercing, enamel and *niello*, with jewels in box settings. Enamel largely substituted for gems under Greek rule; *niello* much used under Roman—Ptolemaic and Byzantine influences. With the Persians, and later the Saracens, came the rich stores of silver and gold plate common to these Asiatic peoples, the styles of articles and ornament following the different periods. Much work in Syro-Egyptian style remains, especially silver and gold inlay on brass and other metals. See Persian and Saracenic.

Hebraic: Silver objects doubtless made in Egyptian style.

Indian: Greek, Persian, Mongolian, Saracenic, Chinese and later Dutch and English influences; with Saracenic style prominent in form, and native Indian style in ornament. Unbroken tradition in shape and decoration since 16th Century, though many modern shapes are in reality very ancient. Chiseling, *repoussé*—high and low relief, engraving, inlay—especially on brass, enamel, *bidri*, *niello*, filigree, pierced work, silver-gilt and parcel-gilt, as well as statuettes and images. Hindus used plain eating and drinking vessels but highly ornamented decorative objects, completely covered with all-over floral designs—birds, animals, and figures—the whole outlined within borders, arches, and compartments. As tea-tasting, incense-comparing, and flower-arranging influenced Japan's finest silver-work, so smoking the *hukah*, chewing the betel-leaf and the use of perfumes inspired the most notable Indian pieces. Cups, bowls, plates, and trays are the usual pieces; rose-water sprinklers, scent caskets, betel-leaf and cardamon boxes, large ewers and *hukahs* are for ceremonious use. Traditional shapes and all-over arabesque designs are typical of North India, elaborate *repoussé* of South India. Kashmir and Lucknow were long noted for superb silver-gilt work. Kashmir parcel-gilt work has all-over designs cut through the gilding to the silver base, producing pearly lusters. The *sarais*, or water vessels (carafes) are typical. *Bidri* work is characteristically Indian; designs in silver are inlaid in sharp contrast on a blackened ground of copper and zinc alloy. *Atardan*—scent box or vase; *gulábpásh*—rose-water sprinkler; *hukah*—smoking bowl; *lotá*—water pot or vase; *pándan*—betel-leaf box; *pikdan*—cuspidor, are typical articles.

Indo-Persian: Work showing both Indian and Persian influences. See Indian and Persian.

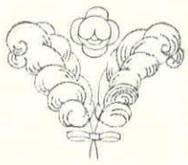
Japanese: Chinese influence through Korea in 1st Century A. D. Earliest work in silver-backed bronze mirrors

(*Continued on page* 100)

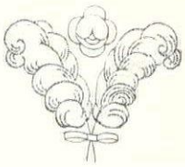
A sumptuous Persian jewel casket of the late 16th Century, topped by flowers and leaves set on tiny springs that flutter at the slightest touch or breeze. The conventional *repoussé* floral ornament is typically Persian. Courtesy Dikran G. Kelekian

Plumes add a formal note to this gay and graceful

CHINTZ



Flowers in summer fullness twine with swirling plumes in this design rich with color and decorative interest. Schumacher adds to its innate appeal the beauty of fine craftsmanship . . . Here is a fabric that hangs well, drapes superbly and belongs by birthright to charming, graceful rooms. Write for complimentary booklet, "Fabrics—The Key to Successful Decoration", Dept. E2, 60 West 40th St., N. Y. Schumacher Fabrics are sold only through decorators, upholsterers and the decorative departments of department stores. Offices also in Boston, Philadelphia, Chicago, San Francisco, Los Angeles, Grand Rapids and Detroit.



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WEDGWOOD

Silver From The Orient

(*Continued from page 98*)

and for sword decoration. Decorative bronzes, variously alloyed for contrasted patina and coloring, are typically Japanese and are often inlaid and incrusted with silver, gold, copper, iron, and various alloys. Nara period (709-784)—copper objects coated with silver or gold; inlaid and incrusted bronzes; foreign influence: Chinese, Korean, Indian and Sassanian —Persian. Heian epoch (late 8th–mid-12th Century)—gauze mosquito curtains weighted about dais with chiseled figures of Dog Fo. Military epoch (11th-14th Century)—tea ceremony, incense burning and flower arrangement became notable cults with appropriate tea utensils, art objects, censers, tongs, vases, bowls, etc., made of silver or decorated with silver. 17th Century—more silver in use, still employed for sword decoration, vases and household ornaments; gold lacquered brasiers had rich silver mountings. 18th Century—naturalistic designs in fashion; many notable metalworkers did inlaying and incrusting of silver and gold on bronze. 19th Century and earlier articles include plates, saucers, incense-burners, teapots and jars, spoons, *saki* jugs, vases, statuettes of human figures, animals and birds. Chiseling, *repoussé*, engraving, punching, enameling—especially *cloisonné* —long in use; chiseling preëminent and typical. *Nata-kiri-bori*—shaded linework; *Kebori*—uniform hairlines; *Niku-ai-bori*—ground cut away leaving ornament in relief. Flowers, foliage, birds, animals, etc., favorite ornament, with various symbols.

Korean: Mongolian types and ornament. Notable examples as early as Korai period (918-1392). Bowls and boxes important, various Chinese forms. Toilet articles, cylindrical rouge box, etc., filigree and engraved designs; needle-case, engraved. 18th Century—*repoussé* ornament in fashion.

Kurdish: With these and other Caucasian tribes silver was generally used for personal adornment. Primitive ornament. Curved dagger sheaths with geometrical designs, bosses in lozenge form.

Malayan: Work of the Malay peninsula was of Indo-Chinese type; thinner metal than Chinese. Display pieces extremely ornate, ordinary articles not entirely covered with ornament, as in India and Ceylon, but foliage and floral designs are so well disposed as to seem part of the object. No human or animal forms or handles. Many charmingly decorated little boxes, pierced or solid, for fragrant flowers, betel-nut, tobacco, etc.; bowls, dishes, and cups. Pillow plates for ends of cushions, chains to tie up the sleeping mat, borders for door valances, etc.

Mesopotamian: Ancient Chaldean, Assyrian, Babylonian, Persian, Syrian and Egyptian influences, later Saracenic. Fluted cup, beaker, mounted ostrich-egg, bull's head, etc., of silver and gold from Ur of the Chaldees—Abraham's home, about 3500 B. C.—give the mounted ostrich-egg, the cup on small standing foot and the fluted beaker an ancient lineage. See Saracenic.

Mohammedan, Mussulman: See Saracenic.

Mongolian: Chinese, Persian, Syrian, and other foreign influences after 13th Century when Mongols conquered almost all Asia and part of eastern Europe. Many foreign craftsmen at Court of the Khans at Karakorum, even a Paris goldsmith.

Moorish: See Saracenic.

Persian: Ancient Assyrian, Babylonian, and Sassanian influences long retained in taste for metal plating on doors, roofs, etc., in silver *repoussé* or inlaid on bronze. Ancient luxury in silver tent-poles, beds, couches, and vessels. Greek influence important from 4th Century B. C. Sassanian (220-640)—traditional native forms and ornament, typically in very flat relief, engraved, chased and with applied *repoussé* figures; vessels hammered and then worked on lathe, like Roman; shallow bowls and dishes with characteristic bird-tailed monster with foliated tongue; foliated bird plumage doubtless influenced later forms of Chinese phoenix—*Fung-hwang*; hunting scenes with huntsmen and animals in typical vigorous *repoussé*. Sassanian plate found far afield in Russia, Peru, etc. Mohammedan conquest (641) brought Saracenic styles, Arabic inscriptions conspicuous, arabesques, exquisite inlay or damascening on brass, bronze, etc., since 11th Century—incense-burners, large candlesticks with heavy bases, vases, lamps, goblets, ewers, basins, mirrors, bowls, dish covers, spoons, pen-cases, etc.; later work on steel, pewter, etc. *Bidri* work, Indo-Persian designs: *hukahs*, boxes, pen-cases, cups, carafes, flower vases, trays, etc. 12th-13th Century—silver ewers beautifully faceted, arabesques and medallions. 16th Century—enamel, anciently used, now beautifully enriched with gold; silver jewel caskets, incense-burners, etc., dignified designs exquisitely worked in *repoussé*, filigree, *ajouré* and parcel-gilt. 17th Century—much enamel and gold in sumptuous rose-water sprinklers, dishes, salvers; traditional forms; arabesques, inscriptions, animals, etc. English porringer and caudle-cup derived from Oriental water bowl, the handles added. 18th-19th Century—old traditions retained, especially in inlay on brass on dish covers, spoons, etc. See Saracenic.

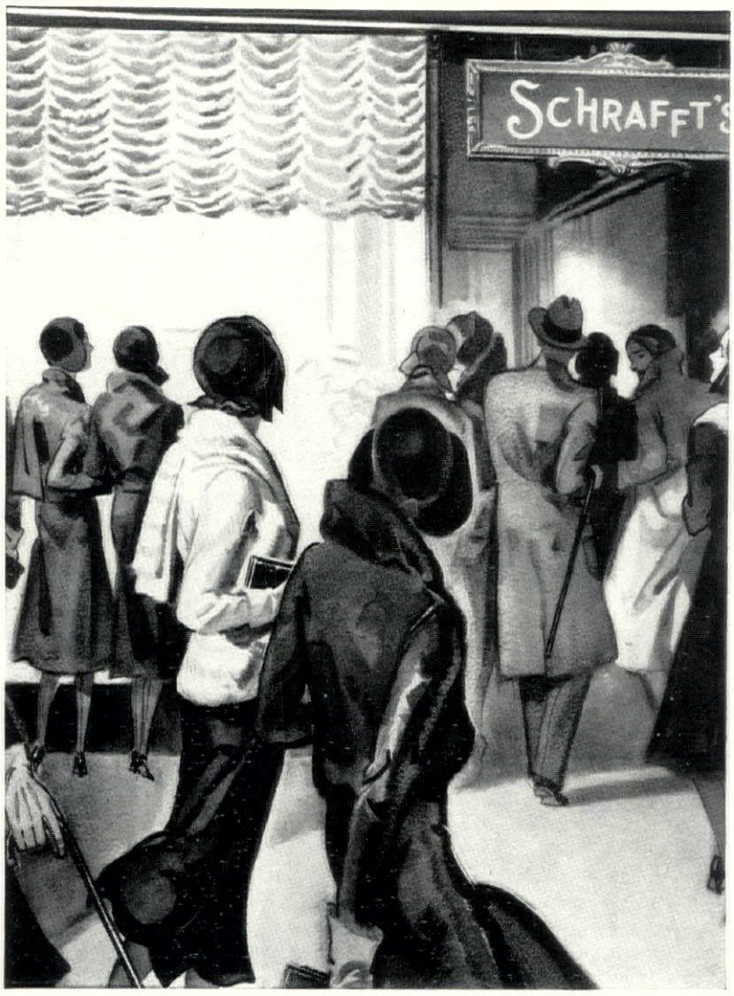
Saracenic, Arabic, Mohammedan: The Saracens spread broadly the art industries of the nations they conquered. Persian influence paramount in metal-work in Persia, Mesopotamia, Syria, Egypt, India, and Spain under Saracen rule. Inlaying of silver and gold on brass, bronze, or copper, combined with delicate engraving, the favorite type. 11th-mid-15th Century —work of exquisite fineness and costly elaboration, seldom later attempted, but inlaying or *kefi* work continued to present time. Two groups of work: 1. Eastern—Persian, Mesopotamian—Armenian, fully developed in East Persia, 12th Century, carried west by Turks. 2. Western—Syro-Egyptian, 13th Century and later. 13th-14th Century—best periods of Saracenic work, later examples mere variations of early pieces. Many articles thus decorated: incense-burners, perfume-burners, braziers, candlesticks, ewers and basins, bowls, cups,

(*Continued on page 118*)

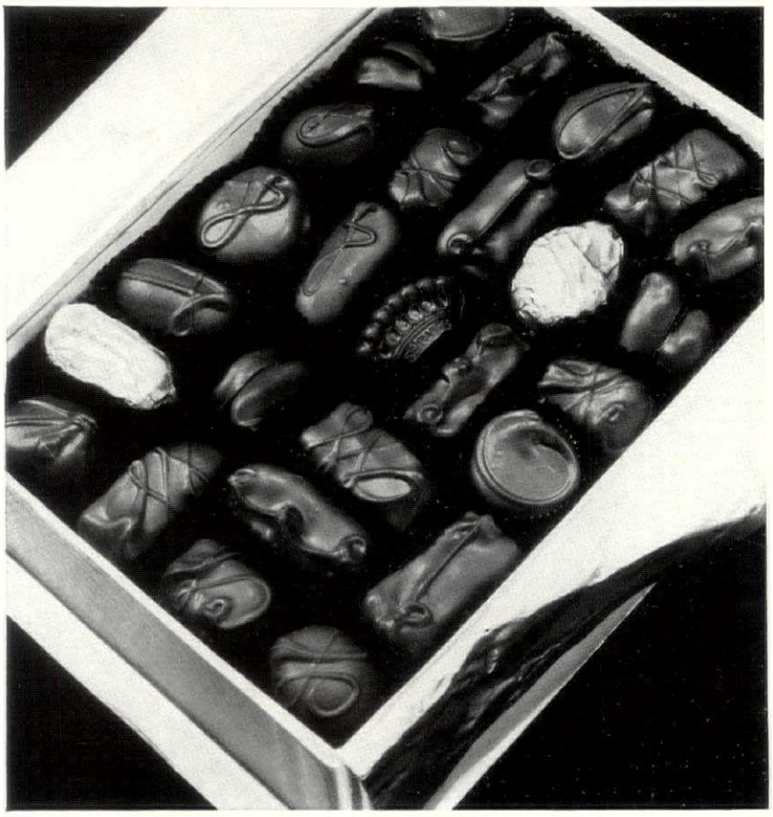
They just grew

and grew

and grew



because *of* flavor



The Jolivet Package—containing eighteen delicious types. Just the choice for all occasions—at one dollar twenty-five per pound.

Certain elusive flavors were captured by Schrafft's. Appetites flocked to our stores and dining tables. The stores grew . . . havens of delicious taste to thousands of New Yorkers.

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Lounge at the La Posada, Winslow, Ariz. Reproduced by courtesy of Fred Harvey. Miss M. E. J. Colter, decorator.

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INTO America's finest homes, apartments, clubs, hotels and lodges—Waite Unit Rugs are envoguing a new note of personalized individuality in smartly appointed floor coverings.

For apartment dwellers particularly . . . . and also those not in permanent homes . . . . they are ideally suited because their unique, unit construction permits them to be cut down or increased in size at any time to fit new quarters.

Waite Unit Rugs are hand-woven from thick, wool braids—in individual 18" squares—invisibly laced together. They can be designed to accommodate radiators, fireplaces and odd shaped rooms. Any conceivable color combination is possible. Sizes are unlimited—up to several hundred feet. Three important features contribute to their great durability and economy—their unusual thickness and firm texture . . . . perfect reversibility . . . . and the fact that damaged areas can be unnoticeably replaced with new units at any time.

In addition—their exclusive, unique style . . . . intriguing beauty . . . . cushiony depth of texture . . . . and infinite color possibilities . . . . give them a distinctive decorative versatility and smartness which are offered by no other rug.

By sending us a small sample of your draperies—together with a general description of the colors you wish emphasized and the size needed—we shall be glad to make up an 18" unit sample without cost or obligation to you. You can thus approve your pattern beforehand. Write for illustrated catalog in colors. Interior decorators will also be interested in complete information.

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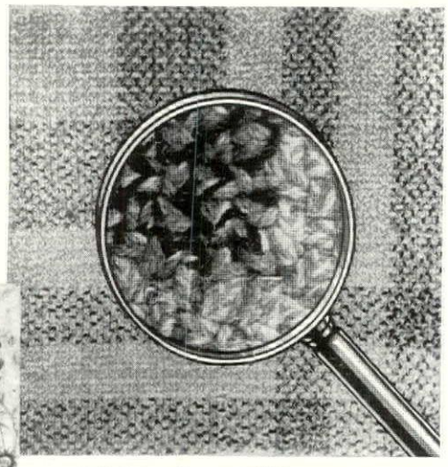


Unlimited color possibilities—made to harmonize with any decorative scheme. Notice the thick, closely woven braids under the magnified area.

Woods And Their Influence

(*Continued from page* 61)

ciated the beauty of the walnut grain and saw the advantages of using it as a veneer whereby they might make a design with the strongly marked graining. Interest in the natural grain walnut and the beautiful polish obtainable displaced the popularity of carving on the walnut furniture of the time of William and Mary, and Anne. Carving when used on the knees of legs and backs of chairs is in low relief and lacks virility. Since walnut could not be obtained in long pieces, and since inlay and veneer were thought impractical for dining table tops, we find few large tables made at this time, or when found, their top is of some substitute wood such as deal.

FROM THE INDIES

At this time the wealth of the Indies was being brought to England by the Holland Dutch Indies Company, so that all sorts of exotic and foreign woods were now obtainable. If we picture those charming, tall marquetry clocks, side tables and cabinets of the period, brocaded in flowers and leaves, we will not be at all disillusioned to know that their lovely colors are made of barberry, rosewood, red sanders, box, holly, sycamore, or citron.

Mahogany holds a place of its own. It was probably brought into England in about 1595 by Sir Walter Raleigh, but it remained costly and rare until the removal of duty late in the Georgian era. Chippendale preferred the dark red Spanish mahogany to the other varieties. The particular facility with which mahogany lent itself to high relief carving made carving the desired decoration for Chippendale chairs. Also, the availability of large pieces of mahogany fostered the production of large tables and of small round table tops made from one piece of wood. Here carving was necessary to relieve the austerity of the plain mahogany. When figured mahogany was introduced, furniture began to be veneered again, and carving was less used. The inrush of other finely figured woods caused furniture to be veneered more and more, and this in turn affected the design of the pieces. Panels were then used instead of simple plain fronts, and delicate materials called for delicacy in line.

But it was the period of Louis XV in France, the age of Cressent and Caffieri that excelled in the use of exotic woods. Some mahogany was used at this period, but it was that which was "thorny," "watered," "flaming" or "speckled" that was desired. Cressent was particularly fond of a combination of amaranth and palisander, but he also had violet wood for purples. For bright greens, there were "calembour, green ebony, lignum vitae; for yellows, there were clairembourg, lemonwood and yellow sandalwood; for red tints, mahogany, Brazilwood, coralwood, caliatour, locust and granadilla; for blacks, grays and whites, there were ebony, anise-wood, jacaranda and Rhodes-wood." Rosewood, which gave the colors of autumn, combined well with the red of palisander. A combination of rosewood framed in palisander, with lemon or holly used between the two woods, was often used. Also one sees cabinets of lemon or satinwood framed in mahogany, amaranth or palisander.

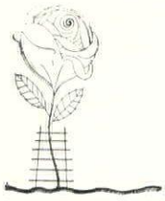
Panels were veneered with two sheets of the same wood, the veins forming a design much in the same manner employed by Léon Jallot and other designers today. Other pieces of furniture were veneered with a "mosaic of different Indian woods." The delicacy of these veneers and the small bits used in their checkered groundwork patterns often made necessary the use of the elaborate ormolu bands of decoration which very often served as a network of support for the fragile woods.

In the late 18th Century, in France, as well as England, the lighter colored woods gained prominence because of their consistency with the delicate lines of the furniture. Riesener, the cabinetmaker for Marie Antoinette, preferred tulip, rosewood, holly, maple, laburnum, purple wood and snakewood; while David Roentgen of the same period used pear, lime and even lighter woods. When mahogany was used it was the lighter tones that were chosen. Adam, Sheraton and Hepplewhite also had a fondness for light woods. Rosewood, satinwood, amboyna, *calamander* and sycamore or harewood were used as veneers, while inlay and bandings were of birch, tulip, pear, coromandel, kingwood and purplewood. The chairs which were intended for painting were usually made of beech.

PLAIN SURFACES

With the Directoire and Empire periods the pendulum again swung toward plain surfaces, and straight, unadorned mahogany veneer surfaces were seen. It is ar uninteresting period from the standpoint of woods.

In our modern furniture design, woods, exotic and rare, colorful and strongly grained, are again used. Different technical methods of furniture construction have made the use of fragile veneers more practical, but the woods remain the same. To be sure, ageing has changed the colors on the old furniture so that our modern cabinetmakers may in contrast seem to have discovered new woods. But the woods of contemporary furniture will age in time and take their places with the thuja, palisander, amboyna, macassar and amaranth of the past.



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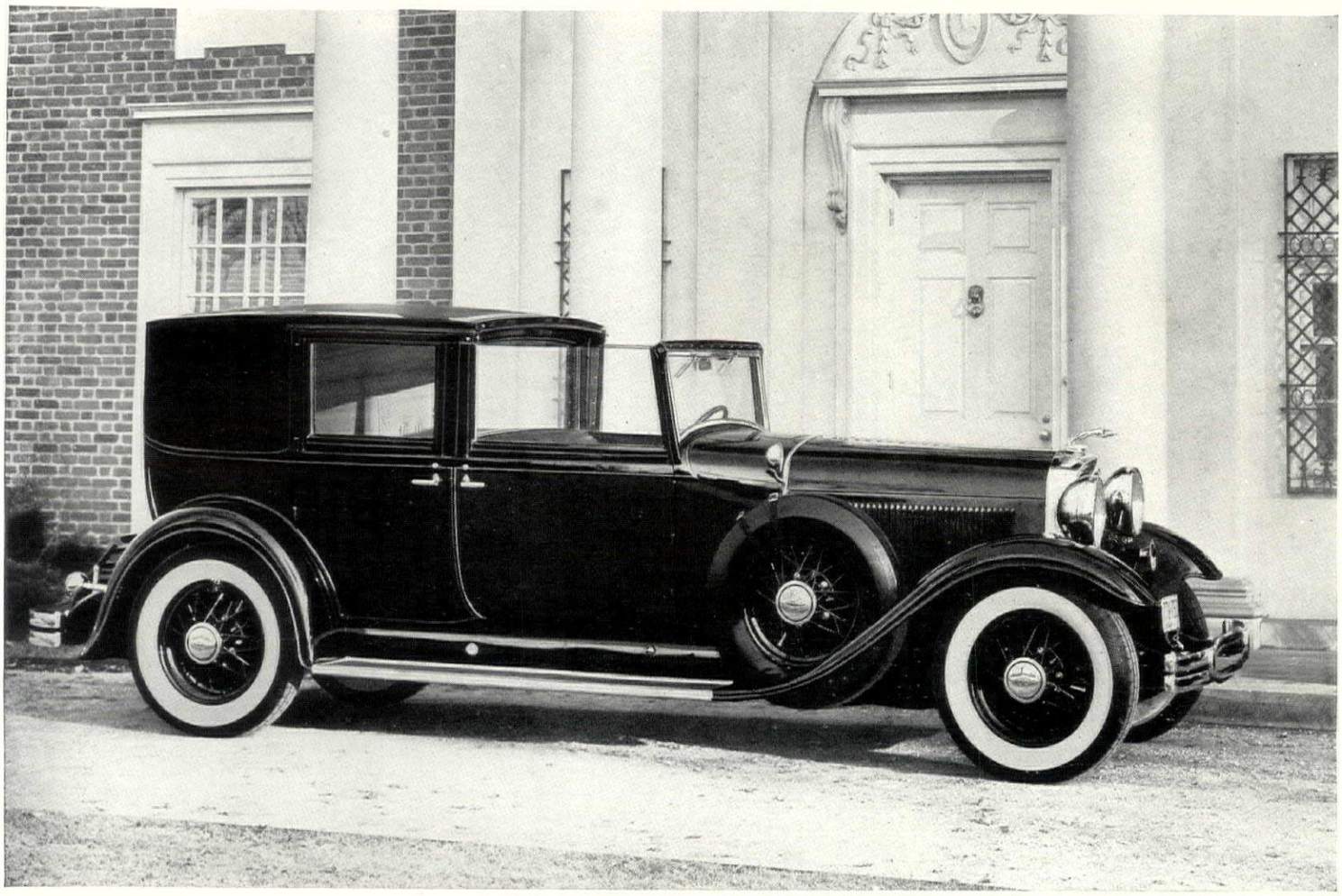


THE NEW LINCOLN WILLOUGHBY PANEL BROUGHAM

WITH power in abundance completely controlled, a free beauty of line, an air-borne ease of driving, the poised excellence of the new Lincoln stands as a distinct mark in motor car achievement. For the new Lincoln was created to be a complete expression of all those qualities which sound research and engineering can provide for the advanced motor car.

This new Lincoln is impressively luxurious. It is driven with a flowing sense of wind-blown power. The new free-wheeling transmission brings a fresh exhilaration to driving. Gears are operated easily, quietly, exactly. Between second and high speeds, back and forth, gears may be shifted without disengaging the clutch. By removing pressure from the accelerator pedal, the engine is automatically released and the car glides smoothly and silently on momentum.

More generous power is commanded by the driver of this car than any Lincoln has ever provided. The new engine develops 120 horsepower, and at the same time, it is more alert, more responsive, more silent. The new Lincoln is longer and lower. It is a newly designed car throughout, adhering strictly to the policy of well-balanced excellence traditional with Lincoln.

The notable luxury and safety, which have always distinguished the Lincoln, are heightened by the advanced engineering and design embodied in this car. And, immediately evident, the whole character of the car itself is expressed in the sweeping, clean flow of its beautiful lines. Prices of the new Lincoln range from $4400 upward, F. O. B. Detroit.

The new Lincoln is built as all the long-lived Lincolns that have gone before . . . in a plant famous for its precision craftsmanship. Behind it are the entire resources of the Ford organization. With such a background, its makers are able to give full expression to their fresh ideal of making a motor car as perfect as it is possible to produce.

Fine Homes

deserve the best SCREENS money can buy

Residence of John A. Patton Chattanooga, Tenn.

INCLUDE "KANE QUALITY" *RUSTLESS INSECT* SCREENS IN YOUR PLANS

Screens, of course, must fit properly. In addition, they should blend harmoniously with the architectural design of the home. They should be sturdily made to avoid accidental damage...and fashioned from materials that will prove permanent over the years without repairs or replacements. That is why many of America's finest homes are fitted with "Kane Quality" *Rustless* Metal Insect Screens. They are manufactured only to individual measurements, guaranteeing a perfect fit... and finished in any desired color to blend or harmonize with exterior trim. The metal frames, though light in weight and neat in appearance, are extraordinarily strong. Frames are of enduring bronze, or galvanized steel, with screen fabric of Anaconda Bronze, assuring rust-proof durability.

Plan for "Kane Quality" Screens when you plan your home...order them as soon as the openings are ready for measurement. They may be had with either wood or metal frames or the new roll screens, for any style or type of window.

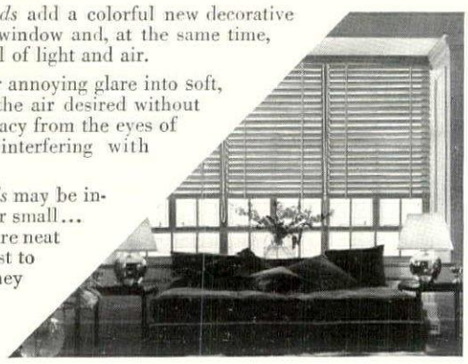
There is a "Kane Quality" screen specialist in your community, ready to serve you now as for the last forty years. We will gladly tell you who he is.

and VENETIAN BLINDS

...for comfort control of light and air

"Kane Quality" *Venetian Blinds* add a colorful new decorative note to the treatment of any window and, at the same time, provide precise comfort control of light and air.

They diffuse direct sun rays or annoying glare into soft, mellow light...they admit all the air desired without direct drafts... and afford privacy from the eyes of passers-by outside, without interfering with ventilation.



"Kane Quality" *Venetian Blinds* may be installed on any windows, large or small... in any home, new or old. They are neat in appearance and easy to adjust to give the exact results desired. They may be had in any color either to contrast or harmonize perfectly with the most delicate color scheme. They are recognized as a desirable feature in sun porches, living rooms, breakfast rooms, sleeping rooms, nurseries and bath rooms, as well as in offices, hospitals, public buildings, etc.

The coupon below will bring you complete information about "Kane Quality" *Venetian Blinds* and Rustless Insect Screens.

KANE MANUFACTURING COMPANY, KANE, PA.

KANE MANUFACTURING CO. Dept. H-2, Kane, Pa.

Please send me free book on

____ "Kane Quality" Venetian Blinds ____ "Kane Quality" *Rustless* Insect Screens.

Name _____

Address _____

City _____ *State* _____

Individual Gas Systems

(*Continued from page 68*)

Where a large amount of cooking is done or where the range operates for long periods of time, coal is probably less expensive. But the cost of maintaining a coal fire all day, when probably it is used only for several hours, makes the comparison a favorable one toward the gas fuel.

Where supervision of the kitchen routine is possible or where bottled gas is installed in the "self operating" cottage or bungalow, there are many ways in which the use of unnecessary fuel may be avoided. Not only should burners be kept carefully adjusted but they must be meticulously clean, for clogged burners are the principal cause of poor heating and wasted gas. The burners should be washed about once a month in a boiling solution of sal soda, care being taken that they are thoroughly dry before being lighted again. If they are badly clogged, they may be put in the hot oven for twenty minutes, then cooled slowly and tapped all over with a knife to dislodge the dried residue. Then there are gas saving precautions which can easily be worked into the routine so that the smallest possible amount of fuel is consumed for the results obtained. A small burner can often take the place of the giant one and, as the heat is immediate at the touching of the match, the gas should be turned out and lighted again if there is a short period when it is not needed. The flame, too, can be turned down when boiling is established, and the use of the efficient oven regulators will prove a real saving of gas in oven cookery. Well-fitting lids on saucepans speed up boiling five times as much as in an open kettle, and a saucepan with a bottom broad enough to fully cover the burner will make every bit of gas consumed pay its way.

MENU SUGGESTIONS

The manufacturers' booklets give skillfully planned menu suggestions for oven meals or gas saving combinations and many of the fascinating new whole meal cookers and triple saucepans will give gusto to meal preparation through their method of "doubling up" entirely unrelated foods.

When the gas itself has been investigated, the integrity of the company verified and the safety of the appliance which delivers it has been proved through the Underwriters' sponsorship, there still remains the question of dependable and constant service, to determine which company will best measure up to individual needs. Some firms have excellent local facilities for delivering. Others maintain stations in all the leading cities with sub-stations in smaller towns. From these the trucking service radiates within a twenty-five mile zone. Still other companies put up their gas in containers which are easily transported in the automobile of the user.

Consulting the local dealer or "the man who owns one" is perhaps the most dependable way of assuring that uninterrupted service will be possible.

Boat owners are delighted at the smaller edition of the home gas plant, which provides the same hot clean flame beyond the shore line. One of the manufacturers designs twelve by twenty-eight inch cylinders so that they may be placed either upright or horizontal. Within the container is the equivalent of nearly twenty-five hundred feet of manufactured gas ready for instant use under its own pressure. Ranges especially for maritime use may be obtained from this company.

Some of the larger boats also install other gas-fired conveniences—hot water heaters, radiant heaters and refrigerators. The size of tank for shipboard use will depend entirely on the number of appliances to be served, the size of the boat and the length of time away from the source of supply. But the distributors will give every assistance in working out these details of cruising perfection.

VARIOUS SYSTEMS

From the list which follows, a gas can be chosen which will fill any local or individualized requirements.

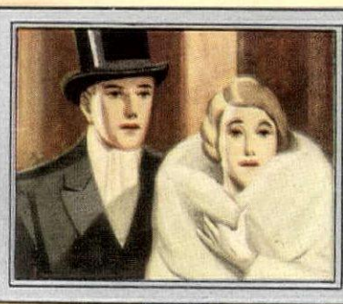
An old established firm, which we will call "A", is said to have built up the largest private gas supply in the world. Hundred-pound cylinders of gas are supplied in such highly condensed form that a single container will discharge the equivalent of about five thousand cubic feet of city gas. The service agreement assures a continuous and dependable local supply, for stocks of the gas are maintained at some hundred-and-fifty central stations all over the country, from which trucks deliver within a twenty-five mile radius. Then there are hundreds of sub-stations to serve the smaller cities and towns, and for those who live outside even this delivery zone come the lighter cylinders which may be safely shipped.

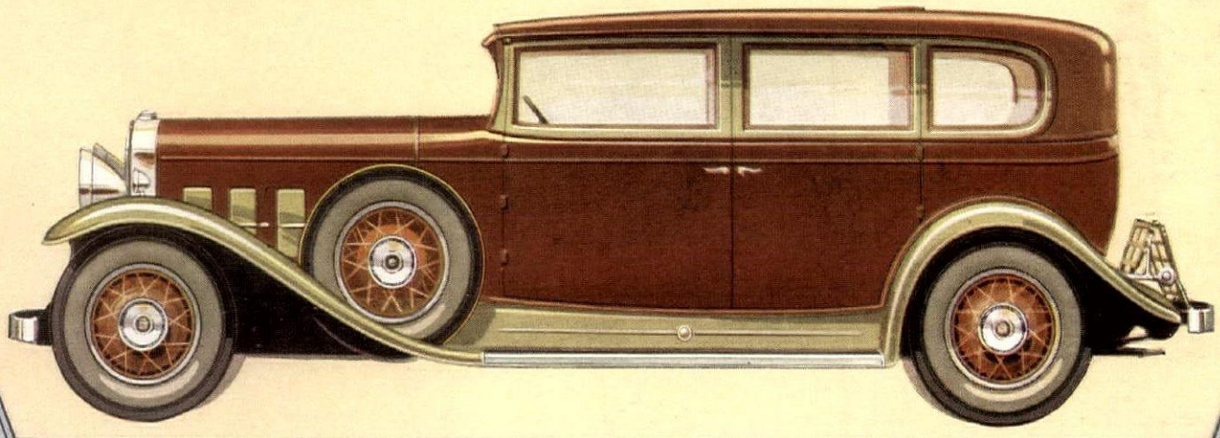
Two cylinders are contained in the supply chamber located outside the house. When the first is used, it is replaced by the service man with a full container so that there need never be a break in the flow of gas to range, refrigerator, water heater or any of the many conveniences which this facsimile of city gas can be made to serve. The heat is clean, even and hot. And there is no priming, no pre-heating, nothing to make the country dweller regret the comforts of his urban days.

Another splendid fuel is provided by a company we will designate as "B". This firm delivers its product under somewhat different conditions and furnishes an almost exact duplication of city gas service, east of the Mississippi. In its great plant, real gas from gas wells is compressed and shipped in special tank cars, to the distributing stations. Then specially built trucks travel each month from one user to the next, replenishing the gas supply in the single cylinder and reading the meter by means of a weighing operation, without the need of changing cylinders or manipulating any equipment. There is no ordering of fuel and the exact amount of gas used is paid for monthly after it is burned. When large amounts of gas will be needed, multiple installations are made without additional expense, to take care of the excess load.

This gas may be installed for any appliance, though the company's approval must be secured in order that

(*Continued on page 108*)





TWELVE CYLINDERS

Among the four lines of motor cars which comprise Cadillac's distinguished family, there is every degree of elegance and luxury the sophisticated motorist could require. Favorite of a large and discriminating number is the new Cadillac V-12—heir to the superlative performance of multi-cylinder design, yet of slightly less wheelbase than the Cadillac V-16

Coachwork by Fisher and Fleetwood · Priced from $3795 to $4895, f.o.b. Detroit

CADILLAC MOTOR CAR COMPANY, DIVISION OF GENERAL MOTORS

Architects specify RUBBER *floors*

for rooms of any period

HERE you see Goodyear Rubber Flooring in a room which takes its inspiration from the thrifty Dutch. Other designs, other colors, fit as accurately with Colonial, Modern, French or any room which your wish and your architect's skill create.

For the colors of Rubber Flooring support the decorative requirements of your rooms accurately. Greens, buffs, blues—what you will—in plain and variegated textures a full palette of these constant hues for your use. In all patterns Rubber Flooring cushions, comforts, is strictly clean. It is a resilient surface underfoot. It reduces noise. It is extraordinarily easy to care for, and requires almost no maintenance cost.

In dining room, living room, bedrooms, kitchen, and bath, Goodyear Rubber Flooring lasts for years, and even the modest home can easily afford it.

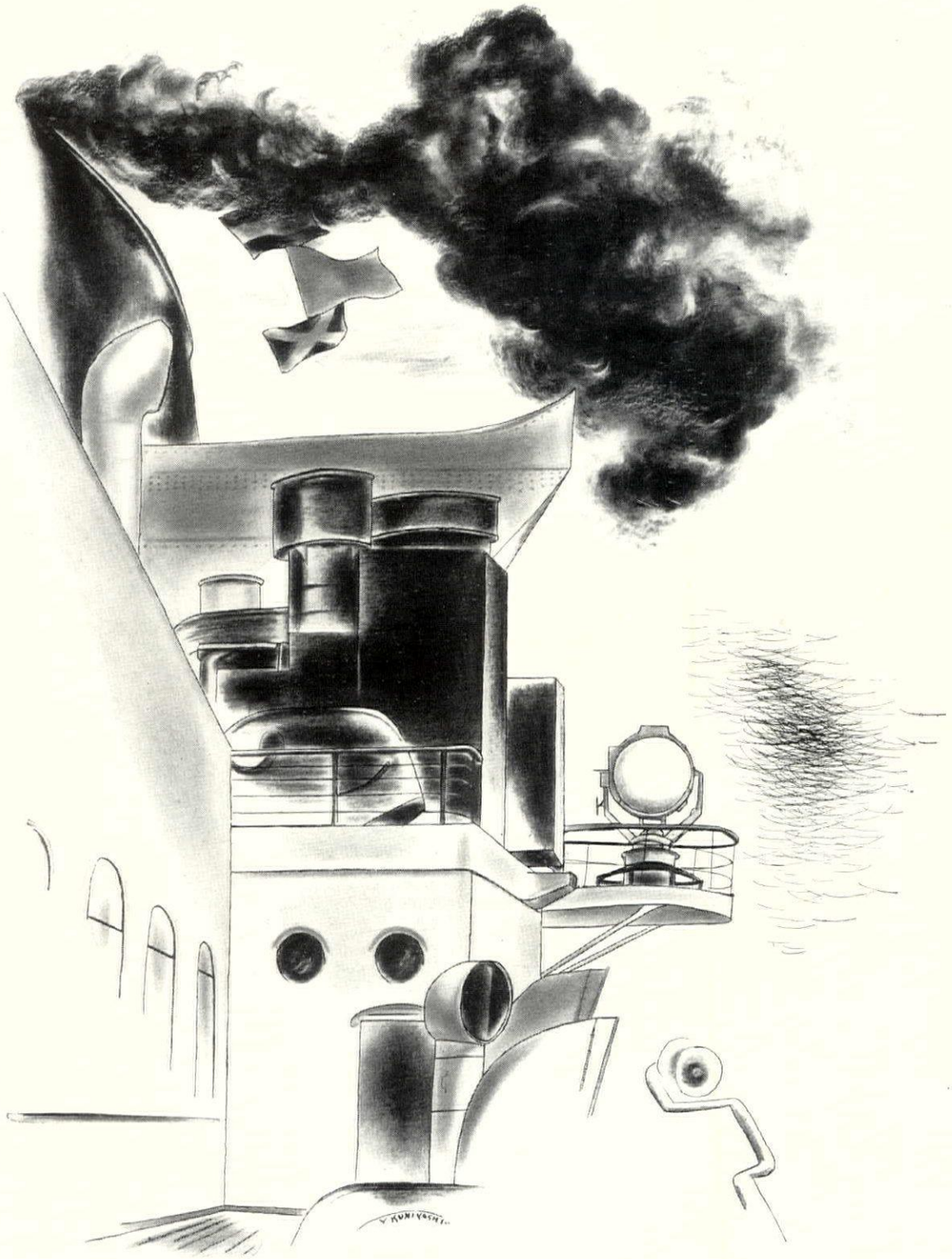
THE GREATEST NAME IN RUBBER

GOODYEAR

RUBBER FLOORING

Copyright 1931, by The Goodyear Tire & Rubber Co., Inc.

Full Speed Ahead by Yasuo Kuniyoshi



NORTH GERMAN LLOYD

Led by the two fastest liners afloat

the Lloyd Fleet offers you the prestige of a passage in the company of record-makers and the thrill of a crossing in the tradition of tomorrow

BREMEN · EUROPA · COLUMBUS ● BERLIN · STUTTGART · GENERAL VON STEUBEN · DRESDEN

Offices and agents everywhere

Rita's Toast is made in double-quick time!

EDICRAFT SPEED TOASTER
Rita sets it—and forgets it. Doesn't watch. Doesn't wait. Toasts 2 slices at once; opens automatically.

Her Coffee is made by the healthful drip method

EDICRAFT MENLO SIPHONATOR
Perfect coffee, every time—pallid or powerful as you prefer it. For the Siphonator also heats hot water for diluting coffee or for making tea. Buy the beautiful urn alone—or with matching tray, creamer and sugar.

Her Sandwiches are toast-blended to a wonderful goodness.

EDICRAFT SANDWICH GRILL
Toasts two sandwiches quickly—and even broils chops, bacon, etc., right at the table. Thermostatic heat control.

"*Anyone* who has an electric light socket can be a good cook now", says Rita. "Edicraft appliances make it impossible for mistakes to happen."

And besides, it's not like Rita to blush unseen in the kitchen. With her Edicraft appliances she's a wonderful cook right at the table. Fair play to her, she gives most of the credit to Edicraft.

Edicraft appliances are automatic, they're swift, they're sure. They are distinguished additions to the tea-table as well as indispensable at the family breakfast. When you see them, look at the "working parts"—you will see the reason for their superiority.

EDICRAFT

EDICRAFT PRODUCTS ARE DESIGNED AND BUILT IN THE LABORATORIES OF

Thomas A. Edison

THOMAS A. EDISON, Inc., W. Orange, N. J. *Please send me "Table Cookery"*

Name..... *Address*.....

Recent Developments In Building

(*Continued from page* 88)

IRON-COPPER RADIATOR

CAST iron and copper have been combined to produce a radiator that gives off both radiant and convected heat. A front of cast iron with integral steam-carrying tubes provides radiant heat. A copper tube and fin assembly joined to the cast iron front, the whole encased in a steel housing, gives convected heat which, delivered through a vertical grille, diffuses throughout the room.

Of total capacity, about 30 per cent is radiant heat given off by the cast iron front, and 70 per cent is convected heat, sent into the room on a gently moving current of air. Steam or hot water is passed first through the slower-to-heat cast iron and thence to the copper tube and fins which respond quickly and supply heat at once. When the heating medium is losing temperature, the iron is slow to cool. This quick heating response and slow cooling is a major advantage.

The unit may be wholly or partially recessed in, or suspended from, the wall. It is smaller in size and lighter in weight than cast iron radiators. It is delivered ready to be mounted; installation is simple. Comfort is promoted by the low delivery of radiant heat and the fact that the lower zone of the room receives the first heat. Economy is furthered not only because of quick heating and slow cooling, but also by low temperature gradient between floor and ceiling, which in turn results from use of low radiating surface and from outward, rather than upward, discharge of convected heat.

DOUBLE DOOR WEATHERSTRIP

WE can now enjoy double doors without having poor fitting stiles leak heat and permit the entry of annoying drafts. The problem of weatherstripping such doors, long a difficult one for the builder, has been solved. The solution is in the form of a strip of felt that is tightly gripped in a steel container. This is inserted in a groove made in the edge of the door and perfect adjustment is secured by means of screws. At any time these screws can be set, inward or outward, as readjustment may be required.

STEEL FRAMING

WITH Lally columns displacing masonry piers, steel girders being used for wide spans in place of heavy timbers, steel lintels over openings, steel floor joists, steel windows, lath and shingles, and sheet steel sinks, laundry chutes and cabinets, the entry of this strong, durable and fire-safe material into residential construction is well advanced. It is but a step to steel framing, and now recent improvements that remove earlier limitations have made this step a short one.

Any dimensions which architects require can be met within a maximum difference of two inches. Steel framing members are perforated on two-inch centers, permitting absolute flexibility of architectural design and detailing.

A second feature is that the complete frame is fabricated at the mill and delivered to the site ready to erect; only three ordinary tools are needed; no cutting, fitting, welding or riveting. Erection is carried forward rapidly. Furthermore, all studs are assembled on 16-inch centers, making possible the use of standard building materials.

Thus, any design, on any type of foundation, may be developed in any favored material, and the rigid, wind-braced frame cannot be attacked by rot, termites or vermin, nor will it settle, warp, twist or shrink.

MOVABLE BRACKETS

EASILY moved brackets or wall lights that plug into baseboard outlets are supported from the floor on slender, inconspicuous shafts that hug the wall closely. Lights and furniture may be arranged and rearranged in any desired manner. These movable brackets give absolute freedom from the restriction of fixed outlets. They require practically no floor space and are not fastened to wall or floor. Two pewter designs are offered, together with one in pewter and Colonial brass, one in early English scoured iron, two in antique gold and one in antique bronze and color. There is a pattern suited to any room. Against the wall they form an interesting decoration and supply light where it is needed.

INSULATING QUILT

ONE of the well-known insulating quilts is now available in a new one-inch thickness. Vermin and decay proof, and possessing high resistance to the passage of heat and cold, one layer of this inch-thick quilting takes the place of several thicknesses of thinner materials, so reducing installation costs. Another new feature is that the quilt on special order may be had made with asbestos in place of kraft paper. The material is sold in rolls containing 125 square feet.

DUAL HEAT CONTROL

FOR maintaining desired room temperatures, one of 72 degrees, for instance, from seven in the morning until eleven at night, and one of 64 degrees for the eight hours of rest, a system of three units possessing several new and distinct advantages is available. Completely automatic, this system for heat control is never failing and so flexible as to solve many control problems.

Comfortable rooms and economical heater operation are assured whether coal, coke, gas or oil is the fuel used and whether hot air, hot water, steam or vapor is the form of heating. By means of its program and astronomic clocks, this system will turn on or off the porch lights, driveway lights, electric heaters in hard-to-heat rooms, the radio for setting up exercises or time signals in the morning; it will ring rising bells and turn automobile manifold heaters on or off.

It will start the hens scratching at six-thirty on winter mornings by lighting lights in the chicken house; it will start humidifiers when it starts the heater, it will operate window closing devices and by means of extra pins or

(*Continued on page* 108)

GARGLE EVERY 2 HOURS

when you have a cold or inflamed throat

You can often relieve sore throat and check a cold before it becomes serious, by gargling with undiluted Listerine every two hours.

Listerine used thus repeatedly seems to give nature an extra attacking force she needs to overcome disease germs multiplying in the nose and throat.

This safe, healing antiseptic kills germs in 15 seconds (fastest killing time accurately recorded by science). Even Staphylococcus Aureus and Bacillus Typhosus in counts ranging to 200,000,000 are killed by it in that time.

Used in the mouth, it first kills and then removes such dangerous organisms as the Streptococcus Hemolyticus, M. Catarrhalis, and B. Influenzae, the germs usually associated with colds and sore throat.

When Listerine is used as a mouth wash and gargle, it reduces the number of germs in the mouth 98%, as shown by repeated tests employing the method used at the great Universities. Moreover, it soothes inflamed tissues and sweetens the breath.

Make a habit of gargling morning and night with Listerine, as a precaution against having colds and sore throat. Once these troubles have developed, however, consult your physician and increase the frequency of the gargle. Lambert Pharmacal Co., St. Louis, Mo., U.S.A.

KILLS 200,000,000 GERMS IN 15 SECONDS

LISTERINE ***reduces mouth bacteria 98%***

Down comes the price — 50c quality Listerine Shaving Cream — now 25c

What Makes a Violet so Delicate and Pleasing?

Beauty of color makes it appealing and charm is added by its texture . . . Impressive beauty also results from the *fabric texture* of Wall-Tex

WALLS Should Come FIRST

IN PLANNING THE BEAUTY OF YOUR HOME

THE charm and beauty of any room depends, primarily, on the wall covering. Good decoration enhances the charm of fine furniture and beautiful hangings, largely influences room perspective and is a most important factor in securing the desired tone or mood for which expression is sought.

Walls should come first—and Wall-Tex, the fabric wall covering of enduring beauty, richly deserves first consideration when this important question of decoration is decided.

Wall-Tex gives you wide selection of attractive new patterns and colorings—and the added richness of *fabric texture*. You may choose from conventional or modernistic designs, bright colors or pastel tints.

Wall-Tex retains its beauty through the years. Tough and elastic, it is not easily marred. The water-proof surface can be quickly cleaned with a damp cloth—or washed thoroughly with mild soap and water.

Series 3324. Rare beauty lies in this design of scattered flowers tied in a bouquet of lace ribbon. A dainty background for French furniture. Furnished in three attractive color combinations.

Series 3348. A modernistic pattern combining distinctiveness with good taste in both design and color treatment. Available in a choice of beautifully blended colors.

Ask your decorator or dealer to show you the new Wall-Tex patterns. Write us for samples and interesting folders, "The Important Points of Interior Decoration" and "The Modern Trend in Wall Coverings."

COLUMBUS COATED FABRICS CORPORATION
Dept. R-2 Columbus, Ohio

WALL-TEX

fabric wall coverings of enduring beauty

Recent Developments In Building

(*Continued from page* 106)

fingers it will easily provide a special heating schedule for week-ends and holidays when everyday living habits are modified.

The first of the three units is a dual control thermostat which is located, usually, in the dining room. Its two dials are set, one for day and one for night temperatures. It maintains these temperatures, automatically shifting from one to the other. It requires no attention once set unless a new range of temperature is desired. This unit is furnished in a variety of colors; in size it is approximately three and a half inches wide, five and a half high and two deep. When it is desired to maintain the "day" temperature later than the usual retiring hour, this is done by simply turning the "night" dial to the desired temperature, turning it back upon retiring.

The second unit is an electric motor and a self-winding 15 jewel clock mounted near the heater. This is connected electrically with the thermostat, and mechanically with the draft and check dampers on coal fired furnaces, and electrically or mechanically with the supply valve on gas fired boilers, and electrically to oil burner motors. The motor wound clock which is not operated directly from the electric current will continue to operate for three and a half days should the current fail. It is provided with a device which makes it impossible for the spring to become unwound.

The third unit is a suitable form of limiting control, including the program and astronomic dials already referred to; these control the heater and may control, by auxiliary circuits, other devices as mentioned.

Individual Gas Systems

(*Continued from page* 104)

they may give efficient results. Back of their organization stand resources and capital which insure a future gas supply without the possibility of a doubt. And through their coöperation with one of the well-known stove companies, equipment may be obtained which will secure the greatest in value and satisfaction for the gas consumed.

Company "C" makes a point of recommending its gas for lighting as well as cooking, water heating, refrigerating and laundry purposes. The light from this gas does not flicker and is soothing to the eyes. It is a real natural gas, purified and compressed into seamless cylinders, two of which are enclosed in an outside chamber and each exchanged as it is emptied.

Each cylinder contains a supply estimated to serve the average home for about two-and-a-half months, giving an odorless and sootless flame which flows under constant pressure. Behind the product stands a company of huge assets.

The company's own engineers have developed the lighting fixtures for both attractive appearance and economical operation, and if cooking is the purpose for which the gas is installed, a range is included.

Still another firm ("D") distributes through the New England States a pure natural gas from the oil fields of Oklahoma. Their installation carries a five-year guarantee against defective parts. Their equipment also is of the type of Company "A", with two removable cylinders, and they, too, coöperate with a stove manufacturer so that maximum results may be secured from their gas by the use of an efficient type of equipment. This gas, too, burns just like city gas, at the turning of the cock and striking of a match and may serve any kind of gas appliance.

A company which has been distributing liquified petroleum gas for domestic use for almost a quarter of a century, we will list as "E". This gas is installed in twin cylinders outside the house and in operation is the same as natural gas. It is advertised as cheaper than electricity, safer than acetylene, lights instantly into a hot, blue and odorless flame and may be used with range, water heater, lighting system or any other equipment.

The Pacific Coast, especially, is favored by Company "F", which bottles the volatile parts of natural gas into metal cylinders at a very moderate pressure. This provides one of the heavier forms of natural gas for cooking, water heating, laundry appliances, refrigerating, for incidental heating or, in warm climates, for actual home heating. For use on board a boat, this company compresses its gas into different sizes of small containers to suit the needs of any maritime kitchen.

The facilities and resources of a great oil company serve the Pacific Coast in the gas distributed by company "G". Cylinders, holding one-hundred pounds each, feed the gas to range, water heater, refrigerator, laundry or lighting plant, each container holding enough fuel for from two to three month's supply in an average family. This same average family spends the following amounts, they estimate, for its daily activities:

Average dinner	5 cents worth of gas
20 gallons of bath water	7 cents
Mantel lamp	1 cent per hour
Radiant heater	8 cents per hour

The company advises the client considering the installation of their service to order the equipment needed to burn it from the local dealer or through the gas salesman as the company itself does not furnish the appliances to burn their fuel.

A company we will call "H", has the gratifying task of making simple and easy the preparation of meals on shipboard. The steel cylinders which contain about fifty pounds of their highly satisfactory fuel are designed for storage in the compact quarters of a boat and as the gas generates its own pressure, pumping into the cylinder is unnecessary. The fuel is in the form of gas the entire distance from the cylinder to the range so the danger of an inflammable liquid leaking into the galley is happily absent. The ranges put out by this company are real ship stoves, clean, safe, convenient and versatile. There is no pre-heating.

© C. N. P.

Directoire . . .
FOR THE MODERNS

A Directoire window—white silk curtains edged with gold braid, gracefully and ever-so-carefully draped . . . furniture that would have delighted the Empress Josephine . . . to finish the picture, a splash of brilliant tulips—this, in a home of modern feeling.

Such is one of hundreds of suggestions in House & Garden's Book of Color Schemes—a book fairly teeming with color variations for every type of room, for every style of decoration and architecture.

House & Garden's Book of Color Schemes is more than a series of vivid inspirations . . . it is a decorator's handbook of great practicality.

It tells you in detail how to transform rooms with the use of color . . . which colors are best adapted to each period of decoration . . . how to combine colors in the room . . . new ideas for wallpapers, painted walls and furniture, upholstery and drapery fabrics.

With the Book of Color Schemes to inspire you, you can devise gay new color schemes of your own . . . with its careful guidance, you can evolve the most enchanting effects in the most difficult of rooms.

Your house deserves the added charm that the Book of Color Schemes can help you give to it. Why not send for this book to-day?

HOUSE & GARDEN'S BOOK OF COLOR SCHEMES

$5.20
POSTPAID

227 PAGES • 237 COLOR SCHEMES • 312 ILLUSTRATIONS
THE CONDÉ NAST PUBLICATIONS, INC.

The Condé Nast Publications, Inc., Graybar Building, New York City

☐ For $5.20 enclosed, send me one copy of House & Garden's Book of Color Schemes

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Address _____

City _____ State _____ H&G 2-31

INCREASE THE VALUE OF YOUR HOME- WITH *the* NEW Floorola

No other machine has this vital, exclusive, superior method of wax distribution that *automatically* CLEANS as it WAXES

THOUSANDS of owners of new homes protect their floors with the remarkable new FLOOROLA method... through the use of this amazingly different machine, the floors of old establishments have also found *permanent* youth and beauty once again.

Day by day depreciation is costing you money unless you guard against it. Delay makes inevitable the expense and great inconvenience of refinishing floors.

Among the opinions of prominent realtors and architects, none more aptly emphasizes the necessity for FLOOROLA than that of Roger H. Bullard, architect of New York City:

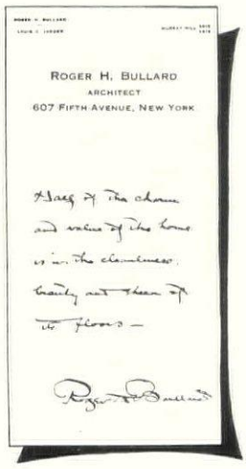
"Half the charm and value of the home is in the cleanliness, beauty and sheen of its floors."

FLOOROLA *Banishes Obsolete Waxing Methods!*

FLOOROLA'S unique method ***automatically*** *cleans* as it *waxes* . . . revealing and *permanently* maintaining the original newness of your floors. FLOOROLA-WAX quickly imparts a crystal-clear surface, hard, brilliant, non-slipping . . . a surface forever rid of the objectional features of old-style, non-penetrating, surface waxing.

The *always* delightful appearance of your FLOOROLA finished floors will enhance the value of your home . . . an investment in this modern new method of floor maintenance pays large dividends.

"The Secret of Beautiful Floors" tells you all about it . . . the coupon below brings you this interesting booklet and the name of your nearby dealer.



ROGER H. BULLARD
ARCHITECT
607 FIFTH AVENUE, NEW YORK

Half of the charm and value of the home is in the cleanliness, beauty and sheen of the floors —

Roger H. Bullard

THE FLOOROLA CORPORATION, YORK, PENNSYLVANIA

The NEW Floorola

The Floorola Corporation,
Dept. HG2 York, Pennsylvania
Gentlemen:
I want to learn more about this revolutionary new FLOOROLA process—send me your interesting booklet, "The Secret of Beautiful Floors."

Name _____

Address _____

City _____ State _____

☐ Send name of nearest dealer.

Now PRICED WITHIN THE REACH of EVERY HOME OWNER

WINTER BABIES AND THEIR MOTHER'S NEED . . . . .

The General Electric Sunlamp Radiates Virtually All the Beneficial ULTRA VIOLET *of the Midsummer Sun*

EVERYONE knows that *summer* with its abundant, vital sunshine is Nature's season of health and growth. Outdoor babies appear to grow sturdier...expectant mothers to gain new strength.

Ultra-violet, flooding the skin, apparently develops Vitamin D potency, aiding the body to use more minerals from the diet...salts that help build sound young bones; that promote baby's well being; that assist mother to resist the exceptional demand for bone-building minerals often placed upon her own skeletal structure and teeth.

But what of these mothers and babies in *winter* ...when sunlight contains only about *one-twentieth as much ultra-violet?*

Science provides a solution: "Indoor sunshine," from the General Electric Sunlamp...rich in *beneficial* ultra-violet. It improves health and well-being...increases bodily resistance. Good for the whole family!

Attach a General Electric Sunlamp at any ordinary A. C. lighting outlet. Use it for a few cents an hour.

Let us tell you more about "indoor sunshine." Just write Section L-582, Merchandise Department, General Electric Company, Bridgeport, Conn.

Join us in the General Electric Program, broadcast every Saturday evening over a nation-wide N. B. C. network.

Floor lamp models in white or bronze, a wall bracket type, a ceiling fixture for the office make it easy for you to enjoy "indoor sunshine."

The energy source of General Electric Sunlamps is the G-E Type S-1 Bulb.

★ **When wiring or rewiring your home, specify the G-E Wiring System. It provides adequate outlets, conveniently controlled, and G-E materials throughout.**

(This advertisement was submitted to the Council on Physical Therapy of the American Medical Assn.)

GENERAL ELECTRIC

SUNLAMP

Refinishing Of Old Furniture

(Continued from page 64)

will give the effect of beautiful old maple. On poplar, because of the decided difference in tone, the coloring is sometimes used only on the lighter parts of the wood. Oil stains, of course, may be used instead of pigment color but these must be applied lightly and an important thing to remember is to use a stain which suits the grain and texture of the wood. Oak, stained mahogany color, for instance, will always look like a poor imitation, while cherry, butternut, gumwood or birch is well adapted for a mahogany stain. When the color is right and thoroughly dried, the piece is ready for a final finish.

Old wood is finished today very much as it was by cabinetmakers of other periods. For the amateur, a finish of shellac rather than of oil and wax is to be recommended. It requires less effort and patience, although it should be borne in mind that any kind of refinishing is considerable work and unless we are ready to put all our energy into the process, the furniture should be sent out to a professional refinisher.

Shellac as a wood finish first came into general use in England in the latter part of the 17th Century, when it appeared on some of the exquisite marquetry of the William and Mary period. It was also used by the famous Georgian cabinetmakers—Chippendale, Hepplewhite, Sheraton and the Adam Brothers. The method in those days, according to the old records, was to dissolve white gum shellac in alcohol and brush it on with no previous application of oil. After several coats of shellac were applied, a polish was given with a paste of beeswax and turpentine. Today, the following is an accepted method and one with which the writer has had personal experience and excellent results. Use either clear or orange shellac (the orange will deepen the tone somewhat) thinned half and half with alcohol. Apply two or three successive coats, rubbing down all but the last with the finest sandpaper or steel wool. The final coat should be rubbed with pumice and oil. The best way to do this is to moisten a rubbing felt or heavy wool pad with crude or linseed oil, then sprinkle it with pumice, taking care that the pad does not become dry enough to allow the pumice to scratch. Each coat of shellac must be thoroughly dry before the next is started. The rubbing must be done with a gentle pressure in order not to break through the film. When the work is completed, the piece should be sponged with an oily rag. This process is often improved by preceding it with the oil treatment already mentioned, but where the oil is found to darken the wood too much it may be omitted. A piece of furniture finished with shellac has the advantage of a hard surface which is not easily marred.

During the Jacobean period in England, the furniture was either left in its natural state or given a dressing of oil or wax or both, and these treatments continued in favor for the simple cottage and farmhouse furniture, usually of oak, and even for some of the more sumptuous pieces.

In using an oil and wax polish today, especially on open grained woods such as oak or mahogany, it is sometimes thought best to give a preliminary application of shellac to fill the pores and make a more smooth and durable surface. The shellac should be well rubbed, until virtually none remains on the surface. The oil is next applied, standing twenty-four hours, as previously described, before waxing. Ordinary paste wax may then be put on with a scrub brush, first across and then with the grain. After standing about an hour it should be polished with a pad of wool cloth, first in circular motion and then parallel with the grain. Follow with a second coat, applied with a piece of cheesecloth and polished in the same way.

Above all, in refinishing furniture, make sure the surface is clean and smooth and dry before beginning. Then secure a mellow and appropriate color by use of pigment, or stain or oil. Finally, no matter whether the finish is to be shellac or wax, be prepared to use patience and perseverance in the matter of polishing. When the work is done, preserve its beauty by simple care.

Pentstemons Bring Rainbow Color

(Continued from page 81)

P. azureus, clear blue, through violet to reddish base.
P. glaber cynanthus, bright sky blue. Reports of dark purple.
P. glaber, clear, bright.
P. florariensis, light azure.
P. heterophyllus, intense. Gentian-blue to metallic-blue.
P. humilis, deep bright.
P. lineolatus, deep blue.

Lilac, Violet, Purple

P. barrettae, lilac, purple flushings.
P. cardwelli, bright purple.
P. davidsoni, dark purplish blue.
P. diffusus, purple to blue, tall.
P. fruticosus, lilac-purple.
P. glandulosa, pale lavender to violet.
P. laetus, deep blue, violet, pink.
P. menziesi, violet.
P. ovatus, dark blue to purple.
P. procerus, blue violet.
P. roezli, bluish purple to clear blue.
P. spectabilis, rose purple, lilac, blue.
P. scouleri, lilac to blue.
P. palmeri grinnelli, cream and lilac.

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Investments in essential commodities, notably land and building properties, are naturally much less affected by fluctuations in market values than investments in commodities of the luxury class.

Real estate offers a wide range of investment possibilities worth investigating, especially first mortgages, first mortgage certificates, and the stocks and bonds of development and management companies.

The booklets listed below will give you more detailed information. Write to us, and we will be glad to have any or all of them sent to you.

BUILDING FINANCIAL INDEPENDENCE	S. W. Straus & Co.
FIFTEEN REASONS	Bond and Mortgage Guarantee Co.
GUARANTEED SAFETY	Lawyers Mortgage Co.
KEEPING DOLLARS SAFE BUT BUSY	The Mandel National Corp.
THE FRENCH PLAN	Fred F. French Investing Co., Inc.
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THAT oft-felt yearning for perfect bodily comfort and complete mental repose is instantly gratified when one drops into the roomy embrace of this luxurious Chaise Longue Rocker. Developed from a Chinese model imported several years ago by an officer of this Company, perfectly balanced so that one may recline in safety, it makes an ideal companion piece to the Wheel Chaise Lawn that is now so much in vogue.

You are cordially invited to visit the Sons-Cunningham showrooms, where a most representative display of the finest quality reed and rattan furniture is available for selection. Or send 20¢ in stamps or coin for portfolio H containing colored prints and other illustrations.

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Fenestra Casements are the vogue in smart houses, yet they cost no more than ordinary windows.

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Fenestra

STEEL CASEMENTS SCREENED

Donald F. Merrett

A quick-growing little annual from Portugal, known as Violet Cress, forms dense clumps of violet colored flowers scarcely two inches high. Excellent for the rock garden and will not crowd out other plants

Worthy Rock Garden Annuals

(*Continued from page 79*)

Abronia. The sand Verbenas offer several attractive kinds to the rock gardener. They are trailing in habit and bear fragrant Verbena-like flower heads over a long season. *A. latifolia* is a yellow-flowered species found near our western coast; *A. umbellata* bears pink flowers and is also found near the coast; *A. villosa*, the Desert Sand Verbena, bears lavender flowers. Sow in open ground in April in full sun and a sandy soil.

Anagallis monelli parksi, the trailing scarlet Italian Pimpernel, and *A. m. phillipsi*, with bright blue flowers nearly an inch across, are good for sunny situations. The last named grows six inches tall.

Androsace coronopifolia is a delightful little white-flowered biennial that self-sows freely. Three inches.

Asperula azurea setosa, the Blue Woodruff, a fluffy little plant with hoary foliage and gray-blue flowers in clusters, self-sows freely. Six inches. Sun or half shade.

Baeria gracilis, Sunshine, is a quaint and graceful little Californian growing from four to eight inches tall and bearing yellow star-shaped flowers in profusion.

Campanula attica is a hardy annual of very dwarf habit, profusely bearing bright blue-purple blossoms of very good size. There is also a white form. *C. loreyi* grows taller, at least a foot high, and bears over a long period very large blossoms varying from white to mauve. Very effective.

Cotula coronopifolia, Brass Buttons, a small annual six inches tall, bears rayless yellow flowers. Not very pretty but useful in damp places.

Cynoglossom nervosum, bearing beautiful sky-blue blossoms throughout the summer and autumn, is very valuable. It grows twelve inches tall and in this garden self-sows freely.

Downingia elegans or *D. pulchella*, very small plants bearing blue and yellow Lobelia-like blossoms and narrow leaves. Four to six inches tall. California. Downingia is a relative of Campanula.

Escholtzia, California Poppy. There are several diminutive forms suitable for use in the rock garden. *E. tenuifolia*, with Primrose colored blossoms and gray leaves, is one, and *E. caespitosa* is another. They are no more than five inches high and are fragile and spray-like in habit.

Erythraea venusta, Pink Gentian. One of the most charming of Californian wildflowers, growing under six inches high and bearing a quantity of bright pink flowers in heads that have been compared to little bouquets. Grows well under quite dry conditions.

Gilia. Several of these charming western annuals may be made use of in the rock garden. *G. dianthoides* (*Limnanthes*), the Fringed Gilia, is an exquisite little plant reaching a height of two to four inches, with tiny leaves and the characteristic Phlox-like blooms, pink or lilac, with a yellowish throat. Likes to grow in sandy ground.

G. tricolor, Bird's Eyes, grows from nine to twelve inches tall and bears pretty pale lilac flowers yellow at the center. *G. nivalis* grows eighteen inches tall and bears lovely pure white fragrant flowers stained orange at the throat. The Gilias come from the foothills of the coastal ranges.

Gypsophila muralis, a tiny plant with feathery greenery and pink inflorescence, the effect of which is like a minute sunset cloud. It is a hardy annual that likes a dry, sunny position and lime in the soil.

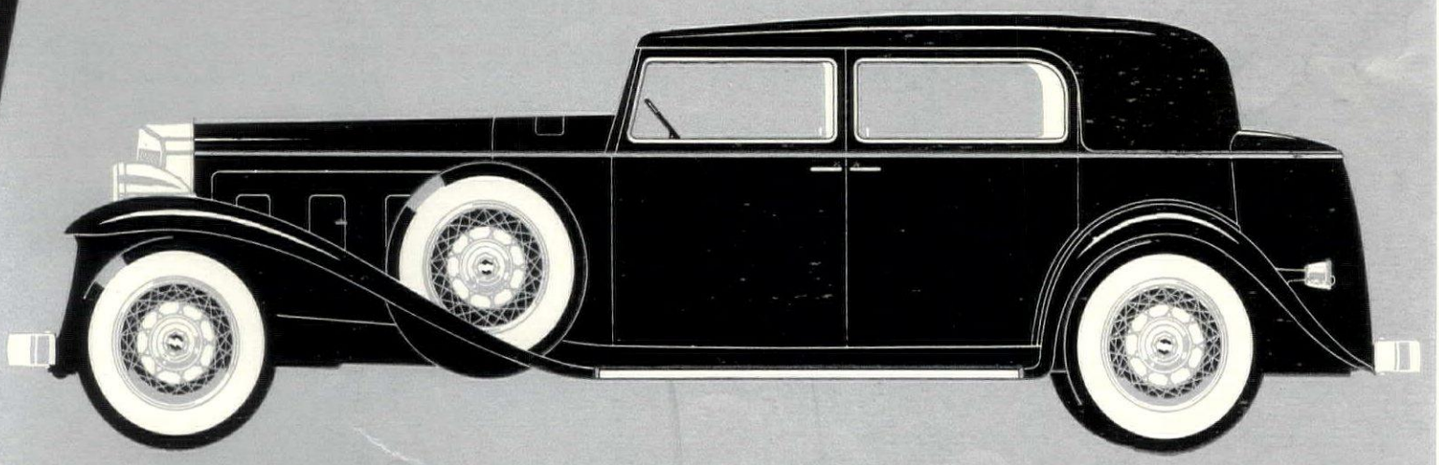
Grammanthes gentianoides, a three-inch annual bearing bright orange colored flowers. It likes best a situation in full sun.

Ionopsidium acaule, the Violet Cress, is an engaging, quick-growing little Portuguese annual no more than two inches high, forming tiny dense tufts of violet-colored flowers. This is one of the best of rock garden annuals and is too small to be a source of peril to the most delicate alpine. Sow seeds in spring in places where they are to remain.

(*Continued on page 114*)

MARMON SIXTEEN PRE-SHOWING

The Marmon Sixteen, the world's most advanced motor car, may be viewed at pre-showings to be held at the principal 1931 Automobile Shows



The Marmon Sixteen looks and performs like no other car...Sixteen cylinders; 200 h. p.::Priced under $5000::Engineered by Howard C. Marmon::Designed by Walter Dorwin Teague

Advance information on application . . . Marmon Motor Car Co., Indianapolis, Ind.

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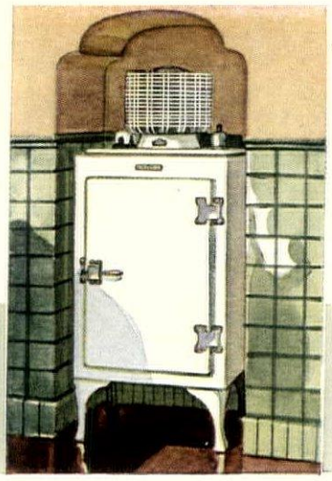

General Electric Co., Electric Refrigeration Department, Hanna Building, 1400 Euclid Avenue, Cleveland, Ohio

GENERAL ELECTRIC

ALL-STEEL REFRIGERATOR

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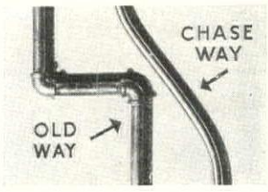

THERE'S a new kind of pipe that makes replacement moderate in cost. A flexible pipe that can be bent around corners and worked down inside walls. Every time it's bent it saves a fitting and saves the cost of opening up walls and floors to install it.

Usually the old pipes are left just where they were. A small opening is made in the wall, a floor board or two is lifted up and Chase Copper Water Tubing is worked around beams and corners *inside* the walls and floors.

Chase Flexible Copper Water Tubing is rust-proof, heat-proof, freeze-proof and will stand forty times the average city water pressure. Chase Brass & Copper Co., Incorporated, Waterbury, Connecticut.

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When a new house is being built, and open walls make rigid pipe easy to install, use Chase Alpha Brass Pipe. It costs only ¾ of a cent per building dollar more than the cheapest rustable pipe—for example, about $75 more for a $10,000 house.

Worthy Rock Garden Annuals

(*Continued from page* 112)

Kaulfussia ameloides is a free-flowering South African annual bearing a profusion of lavender-blue Daisies with a deeper-toned disc. It likes sun and to be sown where it is to flower. Hardy. Nine inches.

Layia elegans, Tidy Tips, another Californian growing a foot tall with yellow Daisy flowers, sometimes white tipped. Foothills and plains.

Leptosiphon hybridus, tiny three-inch plants thickly studded with brilliant small blossoms of various colors. *L. aureus* is similar in type but bears yellow flowers. *L. androsaceus* grows taller, nine inches, and is a profuse blooming plant bearing large heads of lilac and white flowers. These are hardy annuals and may be sown early where they are to bloom.

Limnanthes douglasi, Meadow Foam, is a charming Californian Poppywort, with slender half trailing stems carrying many large, frail "Poppies" that are white with a yellow base. It is a vigorous plant and should not be placed in the choicest positions. Self-sows.

Linaria alpina, a delightful little biennial with small brilliant lipped flowers in orange and purple freely borne on half trailing plants and neat gray-green foliage. Blooms all summer and autumn. Self-sows. Sometimes considered perennial but has never been so in my garden.

Mesembrianthemum tricolor is a dwarf half-hardy annual that thrives in arid sunny situations. It grows only three inches tall and bears large rose-colored flowers with a dark center.

Mimulus fremonti, Pink Monkey Flower, is a four-inch annual with rather large bright pink flowers. It likes a sandy soil.

Nemophila insignia, the well known Californian annual called Baby Blue Eyes by reason of the soft blue hue of its flowers, grows well in dampish places and in partial shade. Four to six inches tall. *N. maculata* is a little plant of spreading habit with white flowers each petal of which wears a purple spot. Also thrives in shade.

Nolana prostrata, the Chilian Bell-flower, is a vigorous plant from South America with trailing stems that makes a good ground cover in sunny places. The blossoms are like small lavender Morning Glories. It is too vigorous for choice situations but may be used as a ground cover over strong growing bulbs. It does not transplant well so is best sowed in places where it is to bloom.

Nycterinia selaginoides, a half-hardy annual with pale blue and white flowers, is delightfully fragrant towards evening. *N. capensis* with white flowers is also attractive.

Oenothera trichocalyx, a Californian biennial that flowers the first season. The large blossoms are white and remain open all day and are sweetly scented. It grows about eighteen inches tall and is bushy in habit, so requires space.

Omphalodes linifolia, Venus' Navelwort, a dainty and graceful little plant producing a cloudy effect with its profusion of milk-white blooms and soft gray leafage. It grows about ten inches high and any sunny place will suit it.

Phacelia campanularia, sometimes called the Gentianette, is one of the most beautiful of the Californian flora. Its flowers are bell-shaped in pendent clusters and of the most lovely blue, brilliant and pure, and produced in a long succession. It grows from eight inches to a foot high and forms neat little bushes of light gray-green foliage. Prefers light, warm soil with lime.

Platystemon californicus, known as Cream Cups in its native lower California hills, is a pretty, graceful plant with slender, hairy stems and glaucous leaves, growing about a foot tall and bearing cream-colored flowers often stained with bright yellow. Sow where it is to flower.

Sanvitalia procumbens is a stout little spreading plant that bears tiny Sunflowers in the greatest profusion. It is a plant for a hot, sunny situation. Half-hardy annual. Six inches.

Saponaria calabrica, related to the roadside Bouncing Bett, is half trailing in habit and bears masses of bright pink blossoms the summer through. It likes a sunny situation.

Sedum caeruleum, annual member of this almost wholly perennial family, is one of the most precious of small treasures. It grows only an inch or so high and bears small pale blue flowers on gray-green mounds of leafage. It is a very pretty plant for small choice crevices in soil that is on the side of dampish. It comes from the regions about the Mediterranean. Sow where it is to bloom. The two biennial Sedums, *S. sempervivoides* and *S. pilosum*, are the brightest jewels in the Sedum crown. They are easily raised from seed.

Schizopetalon walkeri, a hardy annual with white flowers, may be sown about the edges of the rock garden for the sake of the quite delightful fragrance that is given off in the early morning and at sunset. It grows eight inches high.

Silene armeria, Lobel's Catchfly, grows a foot tall and bears in great quantity heads of bright rose-pink blossoms. *S. pendula compacta*, Empress of India, is described as forming dainty little bushes of purplish foliage and stems covered with brilliant, deep crimson-rose flowers. Four inches.

Sphenogyne (*syn. Ursinia*) *speciosa* grows six inches tall, is spreading in habit and bears a profusion of light yellow flowers with a dark center. It is a hardy annual.

Saxifraga sibthorpi is a small annual member of this great race with yellow flowers. It grows cheerfully beside *Sedum caeruleum*. *S. cymbalaria* is another annual Saxifrage that is worth a trial.

Verbena chamaedrifolia with grayish leaves and brilliant scarlet flowers assembled at the ends of its three to five-inch stems is one of the most striking plants of the whole year in the rock garden. Its habit is trailing and in sunny places it will cover a good deal of ground.

Veronica glauca is a pretty little annual not often seen. Like so many of its family its blossoms are bright blue. It comes from Greece and grows no more than four inches high.

I shall be glad to furnish information as to where seed of the foregoing plants may probably be procured. Please enclose an addressed envelope.

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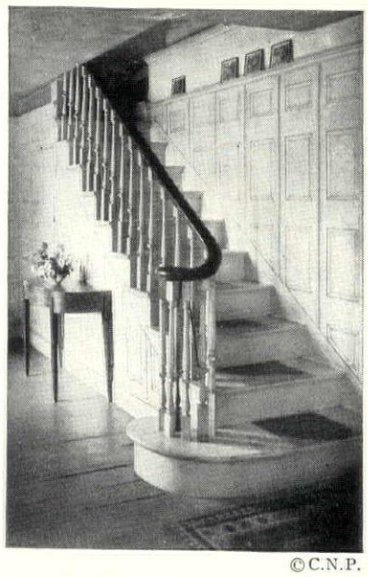

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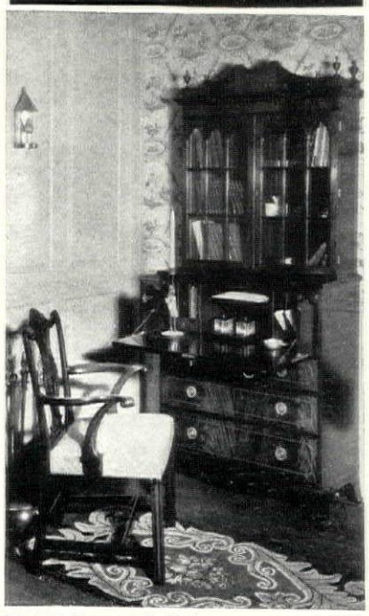

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Plant Carpets Of Many Patterns

(*Continued from page 77*)

follows the flower and seems to be a delicacy for bears. The plant is easily established, grows as well in the sun as in the shade, thrives in any soil and does well at the seashore.

Aspidium acrostichoides, the Christmas Fern, is another good one. Its deep green fronds, twelve to fifteen inches high, stand up through the severest winter. Magnificent plantings have been made with it; it should be planted one foot apart in good garden soil and be grown in the shade.

Euonymus, Wintercreeper. The following varieties are desirable: The well known *Radicans*; *Acutus* with long narrow leaves, white veined and purple underneath; *Carrierei*, with larger and greener leaves than *Radicans*; *Minimus* or *Kewensis*, called the Baby Wintercreeper, a dainty trailer with tiny leaves for small plots, and the now well known *Vegetus*. They unfortunately are easily attacked by scale insects and need spraying; their fine green foliage, however, warrants extra care. The fruit of all Euonymus is very ornamental. They will grow in any soil but are happiest in the sun.

Hedera helix. English Ivy. The small-leaved varieties are perhaps the most suitable; some of them are not too hardy but are excellent in sections where the winter is not too severe or where snow will cover them with a protecting blanket. In the spring the leaves must be cut off and in the summer the plant needs trimming, in order to have an even carpet. All Ivies require good soil and they should not be planted under trees which root at the surface. Shade as well as sunny places suits them.

Juniperus. There are three varieties which I recommend for ground covers: *Juniperus communis depressa*, the Prostrate Juniper; *Juniperus horizontalis*, also called *Juniperus sabina prostrata*, known by the common name of Creeping Savin and *Juniperus horizontalis douglasi*, known as the Waukeegan Juniper. All three form a dense mat, grow rapidly and are especially adapted for slopes and terraces. They will grow in light or heavy soils but do not thrive well in the shade.

THE HONEYSUCKLES

Lonicera. Two varieties can be used effectively, *Halleana* and *Henryi*. They are climbers but if they do not find any support, they will trail over the ground, making a mat of lively green foliage about one foot high. They are not evergreen in the north; in Minnesota they need protection.

Like the Woodbine, they are indestructible but are not happy in dense shade. They will grow in any soil; in fact, the poorer the soil, the smaller the leaves and the better the effect; they do not flower when they trail. Being rapid growers, they can not be used in small spaces.

Pachysandra terminalis, Japanese Spurge. This excellent plant hardly needs any description, it now being pretty well known to all garden lovers. Uniformly six to eight inches high, growing in any soil in the densest shade even under Norway Maples, evergreen in the real sense of the word, perfectly hardy, attractive foliage and greenish white, small flowers in May or June—what more can we ask? It will appreciate a mulch of peat moss at planting time to keep the weeds down; once Pachysandra is well established the weeds have no more chance. A ground cover *par excellence*.

Vinca minor, Common Periwinkle or Blue Myrtle, is another well known ground cover. It came from Europe and feels perfectly at home in its new country. In places where it has escaped from cultivation, in orchards of old abandoned farms, it has made dense mats, covered in April and May with blue flowers. It will grow in shade and sunlight and prefers a moist soil.

The foliage of the following plants is not evergreen and therefore pretty only in the growing season, but they bloom with a wealth of flowers:

Ajuga reptans, Carpet Bugle. The leaves, developing from creeping stems, form a dense mat three to four inches high; they turn purplish brown after the frost has touched them. The flowers, which appear in abundance in May and June, vary from blue to rose; it does well in practically any soil but prefers partial shade.

HEATHER AND OTHERS

Calluna vulgaris, Scotch Heather. It is not necessary to describe this most charming plant, which is well known but not used enough. Hardy as a rock, it will thrive in poor soil; if it does not, some tannic acid will put it right as it is a lover of somewhat acid soil. To get the best effect, the plants must be cut down in early spring.

Lisimachia nummularia, Moneywort or Creeping Jenny. Another lovely creeper which remains very low and can be used to cover small spaces. The bright yellow flowers bloom in summer and again in the autumn. Moist soil and sun.

Roses. Three varieties of Roses are extremely useful as ground covers; they must be planted where they will have plenty of space to develop, where they have sun and fertile soil. The trailing, horizontal branches produce a wealth of flowers in June and the foliage of all three remains green until severe frost. They do not need any pruning, Nature takes care of that; the strongest branches will survive.

Evergreen, a hybrid Wichuraiana, has yellow buds and small, double white flowers; Max Graf, a Rugosa hybrid, has large, shining pink, single flowers and real Rugosa foliage, dark green and leathery. Wichuraiana, the parent of so many beautiful climbing Roses, has small pure white flowers, carried in large clusters. A large bank, planted with these three Roses in three separate masses, will be beautiful when the Roses flower.

Thymus serpyllum, Wild Thyme. Practically all the varieties of Thyme can be used advantageously as ground covers. Excellent are the White Mountain Thyme; the brilliant scarlet *Coccineum* and also *Splendens*, perhaps the best. Planted between flagstones, they crowd out other vegetation.

Veronica rupestris, Rock Speedwell, closes the list. It creeps densely along the ground, forming a thick mat; its small attractive foliage alone would make it valuable but besides, a cloud of blue flowers covers the plants in June. It prefers a sandy soil.

New Stars! — in the Firmament of Flowers!

Schling presents

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Never have there been so many or so entrancing new presentations—and to them we have added some 40 other varieties equally desirable, little known Rarities and Schling Specialties—the delight of the flower loving *cognoscenti*. Amid so much distracting loveliness it is hard to choose—best order the entire collection (See Offer E) and treat yourself and your friends to a glorious gardenful of beauty.

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Offer A—a $14.65 value $12.00

Edelweiss Aster (Offer A)

Edelweiss Aster—Snow White—First of a new line of asters, very dwarf and floriferous—10- to 12-inch plants covered with snow white flowers resembling Alpine Edelweiss. Perfect for bedding. **Pkt. 75c**

Ageratum Mexicanum Nanum, Rosabella—An exquisite new deep rose variety. Very dwarf, and with Ageratum Blue Cap below is unsurpassed for border planting. **Pkt. 75c**

Ageratum Blue Cap—A decided improvement on Little Blue Star. Each little plant forms a compact dome of blue flowers. **Pkt. 75c**

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Aquilegia Crimson Star—A new Columbine with brilliant flowers of a dark, rich crimson, carried on long graceful stems. **Pkt. 75c**

Hardy Spring Flowering Aster, Subcaeruleus, Wartburg Star—Huge Daisy-like flowers of bright lavender-blue, 4 inches across, on 28-inch stems. Bloom in May and June. Extremely effective with white daisies and gaillardias in bed or vase. **Pkt. 75c**

Orchid-flowered Dahlia—A very unusual star-shaped annual Dahlia in white, red, orange or canary yellow. Its long twisted petals, often with contrasting colors on front and back, make it a novelty of very distinctive effect. **Pkt. 50c**

Nicotiana, Crimson Bedder (Offer A)

Nicotiana Affinis, Crimson Bedder—Deep crimson flowers borne freely on 15-inch plants. A splendid bedding plant. **Pkt. 60c**

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Lychnis, Forresti Hybrids—Very decorative for the rock garden. Long showy panicles in charming shades of crimson, carmine, pink and white. April to May. **Pkt. 75c**

Giant Scabiosa, Loveliness—Very unusual in form and color, a delicate salmon-rose. Delightful fragrance. **Pkt. 50c**

Papaver Nudicaule Delicatum—A new and worthy rival to the famous Coonara Pink. Delicate rose color. **Pkt. 75c**

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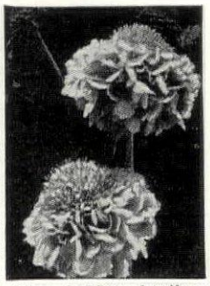

Giant Scabiosa, Loveliness (Offer A)

Ursinia Anethoides, New Hybrids, Jewels of the Veldt—A delightful stranger from South Africa with flower petals of a rich orange contrasting with a center varying from ruby red to dark purple, spangled with jewel-like dots. Blooms June to September. **Pkt. 50c**

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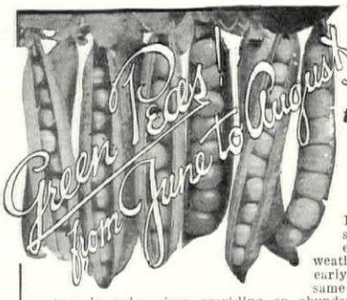

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Marvelous not only for *size*, though its flower spikes rival the gladioli in height and vigor—but also for its *color*, a rich velvety copper-red hitherto unknown in snapdragons and indescribably beautiful—no other snapdragon remotely approaches it—a "First Prize" winner wherever exhibited. And here are the rest of the royal family—

Snapdragon Indian Summer

Golden West, deep golden yellow
Pathfinder, rose pink
Yosemite, lilac purple
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Wyoming, carmine
Seminole, rosy lilac
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Miami, delicate rose

1 pkt. of any of the above, $1.00; 6 pkts., $5.00

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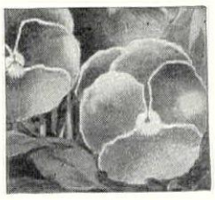

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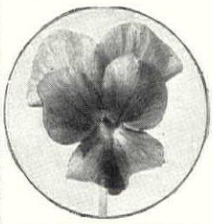

Viola Royleana—(Offer D)

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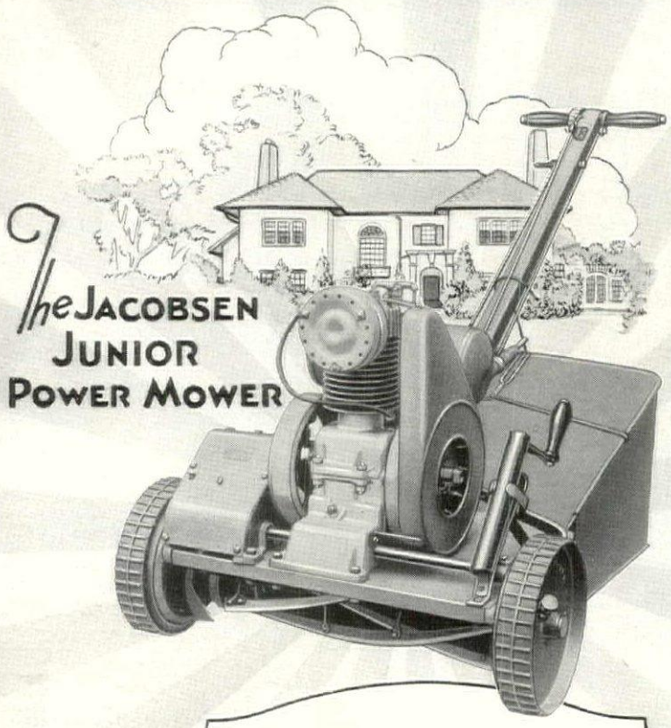

The oldtime trials of mowing the moderately large lawn—pushing the mower back and forth, mowing up and down the terraces, keeping the cutting reel from clogging, and finally having to re-sharpen the cutting knives—these laborious duties are entirely forgotten in the enjoyment of using the Jacobsen "Junior" Power Lawn Mower.

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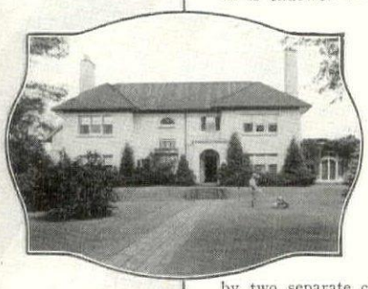

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A Jacobsen for Every Type of Lawn

Other Jacobsen power mowers include the "4-Acre" heavy-duty type with the rubber-tired wheels and sickle-bar attachment, also the "Estate" roller traction mower with 24 and 30-inch cutting widths, for finest lawns, and the widely popular Jacobsen Putting Green mower, all of which have proved real sensations of power mower exhibits at national flower shows this year.

WRITE for Free Catalog—"Lawns Beautiful." It describes the exclusive features which have won prominence for Jacobsen mowers everywhere.

JACOBSEN MFG. CO., 743 Washington Ave. Racine, Wis.
You may mail your free catalog, "Lawns Beautiful" to

Name

Address

Jacobsen Mfg. Co.
743 Washington Ave.
Racine, Wis.

16-30

Silver From The Orient

(*Continued from page* 100)

trays, caskets, boxes, mirrors, writing caskets, mortars, etc. Decoration: arabesques and interlacings with human figures, scenes of Court life and hunting, animals, birds, fish, Persian bird-tailed monster, griffins, sphinxes, zodiacal signs, horizontal bands, medallions, Arabic inscriptions in *Nashki* and *Cufic* scripts. Persian work—high art quality, floral arabesques and figures. Mesopotamian—chiefly from Mosul, lavish use of engraved silver plates, sometimes on blackened ground, characteristic use of human and animal figures. Egyptian—Fatimy work, 11th Century; Mamluk, 13th-16th Century; little use of figures and animals, whirled rosettes typical. Syro-Egyptian—objects similar to Persian and Mesopotamian; combined Syrian and Egyptian styles of decoration. Spanish—Moorish, North African type—hanging lamps, perfume-burners, and caskets typical; conventional arabesque ornament. Syrian—work at Damascus—called damascening, and Aleppo combined Mosul and Mamluk characteristics: birds in a circle with heads together, floral and leaf rosettes, typical. Sicilian—work developed from Fatimy; Venetian—from Syrian and Mamluk: graceful European shapes, elaborated arabesques, silver used sparingly; *alla gemina*, 16th Century work in Persian style. Silver worked alone or with ivory and other materials, handsome engraving, *repoussé*, piercing and *niello*. See Indian and Persian.

Sassanian: See Persian.

Siamese: Work resembles Malayan; caskets, small boxes, dishes, etc. 18th-19th Century—silver-gilt, *niello*, and filigree. Lobed melon-shaped caskets.

Singhalese: Work done on Island of Ceylon; Indian influence; many native forms. Dutch and Portuguese influence in lowlands, native work in Kandyan provinces. Ornament completely covers the article as in India; architectural compartments, domes, arches, floral and foliage designs. Powder horns in filigree. Shell trumpets mounted in brass inlaid with silver and copper. Knife handles and sheaths, elaborately mounted.

Syrian: Fine silverware made at Antioch in early Christian era. See Saracenic.

Syro-Egyptian: See Egyptian and Saracenic.

Thibetan: Mongolian, Chinese, and Indian influences. Large pieces typically decorated with small fantastic statuettes since early times. 19th Century and modern metal-work, partially mounted in silver, especially copper vessels.

Turkish: Typically Saracenic. 19th Century—cup-holders characteristic, low bowl-shaped on low stem, filigree, pierced, and *repoussé*. See Saracenic.

House & Garden's Bookshelf

INSECTS AND THEIR CONTROL. By Andrew Wilson. Springfield, N. J.: Andrew Wilson, Inc.

HERE is, beyond question, the most complete, lucid and practical book that we have seen on the perplexing problems of checking the insect hosts in their raids upon our gardens, shrubs, trees and house plants. It goes further than this by devoting a small but effective section to the control of clothes moths and other pests of the household.

Mr. Wilson has done well to approach the subject from the standpoint of the plant attacked rather than the insect attacking. Most of us, when we first discover that something has been chewing our Appletrees, for instance, are sure of just one thing: that the damage is being done to the Apple, not to some Maple or Elm. Very well; we simply look up Apple in Mr. Wilson's book and under that heading find listed and described all the Apple pests together with instructions for destroying them. The whole volume is planned in this way, so that it becomes an invaluable title in every well regulated home-gardening library.

The author has done well, too, in sketching the life cycle of each of the pests he covers and in illustrating many of them with excellent photographs and drawings. Not only is the interest of the book greatly increased by this, but the actual results achieved by following the directions are made more certain. If we know just why certain preventive and eradicative steps are taken, we naturally proceed with more assurance and effectiveness. In other words, knowledge of the history, habits and future plans of the bug we wish to kill is of definite help in killing him.

R. S. L.

PATIO GARDENS. By Helen Morgenthau Fox. New York: The Macmillan Company.

ALL that the magazines are publishing about home and garden making, and the many notices that it finds in even the daily newspapers naturally bring a tone of sadness to the hearts of the many who, for convenience if not because of necessity, live in the compactly built portions of cities. To them in particular the author brings comfort through her approach to the subject from "the point of view of the present-day garden maker." She shows "how to make the most of a small space, how many paths to have, how to place the few shrubs so that they will look like a luxuriant planting, and what the proportions of the accessories should be, and how many to use so as not to crowd the little enclosure." She has herself been taught by Spanish gardens, which grew out of the *patio*, and the patio is defined as a "hollow square open to the sky, surrounded by the four walls of a house." Walls afford advantages, those of shade and privacy, and give a connecting background for benches, pools, pots and shrubs. Painted walls and tiles add color to that of the flowers.

Not only our own Southwest, with conditions similar to those of Spain, can enjoy the convenience of ceramics that are not affected by disease or

(*Continued on page* 120)

BEGINNERS in rose-growing, as well as expert rosarians, will be delighted with the great collection of Roses in our nurseries. Hybrid Teas in every tint and color known to date; charming old-fashioned Teas; lusty, fragrant Hybrid Perpetuals; dozens of dainty Polyanthas; an amazing array of Climbing Roses; intriguing groups of Chinas, Sweetbriers, Cabbage, Moss Roses, Species, and others. The plants are splendid, field-grown, low-budded, matured in a long, dry autumn. They are ready to break into eager growth, and burst into abundant bloom in your garden.

Roses by Bobbink & Atkins

Our catalogue describes and prices nearly a thousand Roses. Their merits and demerits are clearly stated. All are classified and arranged to make selection easy. A copy of the new edition will be mailed on request to those who intend to plant Roses.

BOBBINK & ATKINS, Rutherford, New Jersey

Please mention House & Garden *when writing for the Rose book.*

SINCE 1867

COLDWELL POWER

Above: Coldwell "L-Twin" motor lawn mower and roller. Mows and rolls 4 to 6 acres a day on one gallon of gasoline. Gang units more than double its capacity.

Coldwell Dependable Equipment Produces Beautiful Lawns

YOU will want particulars regarding new refinements and improved features in the Coldwell DEPENDABLE power lawn mowers and rollers for 1931.

A complete line of power lawn mowing equipment backed by a reputation of more than a generation of sustained leadership.

A style and size suitable for any lawn—each model is moderately priced and all are fully guaranteed.

Full particulars and name of nearest Coldwell representative on request

COLDWELL LAWN MOWER COMPANY, NEWBURGH, N. Y., U. S. A.

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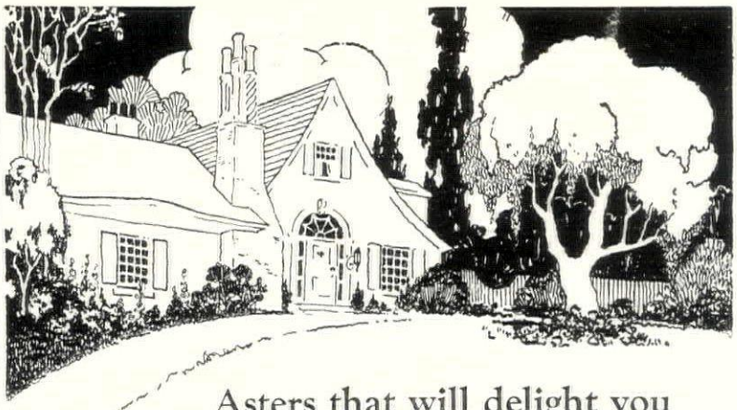
Manufacturers of ***Dependable*** *Lawn Mowers—Hand, Horse, Gasoline, Electric*



Asters that will delight you

For perfection of form and charm of color, Dreer's Famous American Asters will be a revelation to those who know only ordinary varieties. To introduce these superb Asters, which are easily grown and bear a profusion of large flowers, we make this *Special Offer*. Six ¼ oz. packages of seeds of six leading varieties, all different colors, $4.00 for the collection. Six packets, all different colors, 50c.

Dreer's Garden Book

describes our complete assortment of Asters, including those in above special offer. It is the most comprehensive book on flowers and vegetables published and contains valuable cultural advice and list of fertilizers and tools required for successful gardening.

For a free copy mention this publication and be sure to address Dept. K

DREER'S
1306 SPRING GARDEN ST.
PHILADELPHIA, PA.

Send at Once for This Catalog of ROCK and HARDY PLANTS

GARLAND FLOWER

For its lovely fragrance the Garland Flower surely deserves a choice place in your plantings. Price for bushy flowering plants about 7 to 9 inches in diameter, each 75 cents; per 3, $2, per 12, $8. Complete cultural instruction will be sent with each order!

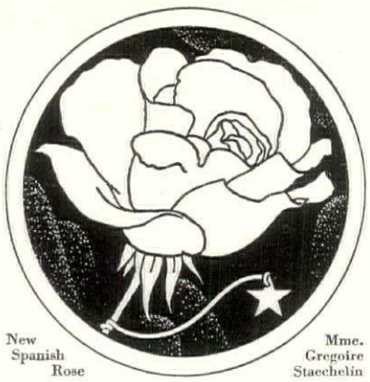
In the first place, you will find in no other, an equal number of kinds and varieties. In the second place, it's the first time any rock and hardy plant catalog has ever contained full cultural directions for each kind of plant. And when we say full, we mean just that. It tells you in a friendly, helpful way, exactly what to do to get the results you are seeking.

Furthermore, in it you will find a wealth of illustrations and an unmatchable inclusion of the best that's procurable in rock and hardy plants. Plants that are of highest quality, as no other do we sell. If you are seeking information and such quality plants, then send for this help filled catalog.

Wayside Gardens

MENTOR, OHIO

Reg. U. S. Pat. Office



New Spanish Rose — Mme. Gregoire Staechelin

STAR ROSE novelties . . . and old favorites! . . .

You will enjoy reading about new . . . colorful . . . different . . . distinctive "Star Rose" novelties. All are admirably suited for planting in your garden; we know because we have field-tested them for two years. You will want these delightful guaranteed novelties—all of them "Stars":

★ Syracuse—HT—Crimson
★ National Flower Guild—HT—Scarlet-crimson
★ Director Rubio—HT—Cochineal-pink
★ Mrs. G. A. Van Rossem—Orange bedding rose
★ Ami Quinard — HT — Crimson-maroon bedding rose
★ Mrs. Pierre S. du Pont—HT—Golden yellow
★ Kardinal Piffl—Orange pink
★ Joyous Cavalier—HT—Crimson scarlet
★ NuntiusPacelli—HT—Snow-whitebeddingrose
★ Mme. Gregoire Staechelin—"the queen of all hardy climbers". Immense buds, maroon-carmine; open flower opalescent pearl.

Each spring we feel that our patrons should be told of the latest rose novelties, as well as reminded of our complete selection of guaranteed roses—the best roses for America. This year is no exception—and so we have gone to the utmost limits in getting together our 1931 "Star Guide to Good Roses". It makes the selection of your "Star Roses" easier. It gives you a complete description of each of our novelty "Stars". It makes rose selecting so easy that we urge you to send for the "Guide". The coupon below is a convenient form of request. Send it!

Avoid experimenting!

Avoid all unnecessary "chancing" with roses! Plant genuine trademarked and guaranteed-to-bloom "Star Roses" and avoid all risk. They have been tested *outdoors* in our proving gardens for two years. Send for the "Guide".

THE CONARD-PYLE CO.
Robert Pyle, *Pres.*
Rose specialists for 34 years
West Grove 321, Pa.

THE CONARD-PYLE CO.
West Grove 321, Pa.

Please Send the 1931 "Star Guide to Good Roses" at once.

Name.....

Address.....

STAR ROSES
GUARANTEED TO BLOOM

House & Garden's Bookshelf

(*Continued from page* 118)

drought—unlike the flowers—and which are a permanent embellishment to the garden. The charms of flowing water also can be had in a pent-up city garden. For the construction of pools and rills the author gives advice based upon what the people of old Spain worked out, but adapted to modern America, as is the case with the other accessories and with the plants also. There is treated, in addition to colors which can be enjoyed so intensely in such confined garden areas, the subject of fragrance. It is shown that not only by the use of pots may plants be added, but by the use of ledges and balconies also; these in general ought to be more generally taken advantage of.

For the average gardener the most valuable part of the book is that which deals with the three ways of planting flowers in beds of a small garden; the Arabic mode of mixing all colors, shapes and varieties—the way that gives most fun to those who do all their own gardening; the French manner of planting formal rows of plants, tastefully graduated in tone and height like a striped ribbon, with each stripe a bit higher than the last; and the English way—a combination of the Arabic and French, with flowers mixed in height and color, but with accents repeated throughout.

F. B. M.

THE CACTUS BOOK. By A. D. Houghton. New York: The Macmillan Company.

HERE at last is the book for which hundreds of amateur plants-people have been wishing—and for which thousands more will soon be visiting the booksellers if they recognize a good thing when it is offered to them. For Dr. Houghton (who is the President of the Cactus and Succulent Society of America, by-the-way) has produced a fascinating volume which for directness, clarity and vividness is in a class entirely by itself. We defy anyone at all possessed of a feeling for plants to remain wholly untouched by the peculiarly stimulating quality with which the author has invested his pages.

Yes, an absorbingly interesting book and one which is intensely lucid and practical. It tells in detail how to grow Cacti from seed, how to hybridize them, how to propagate by cuttings and grafts. It deals succinctly with the matters of watering and care and gives a list of growers who issue catalogs. Enough is told of the 1,500 known species and 3,000 hybrids to open the gate into what is, for practically all of us, a new and immensely alluring field. The sections on Cacti for outdoor rock gardens in the North as well as the South disclose innumerable fresh opportunities, as do those in which these odd and highly varied plants are considered in the light of their indoor culture in little landscapes and bowls. Pertinent advice on labeling, cataloging and a workable Cactus vocabulary lead up to what is perhaps the most notable single feature of the book: an extensive tabulated list of desirable kinds with their countries of origin, colors, degrees of hardiness, habits, exposure, soil and moisture requirements, and the colors of their respective flowers.

Don't miss *The Cactus Book*. If you are already a Cactus fan, it will make you a still more rabid one; if you're not, prepare to be converted. In any case, read it for the human, sincere, informative charm which characterizes it from one cover to the other.

R. S. L.

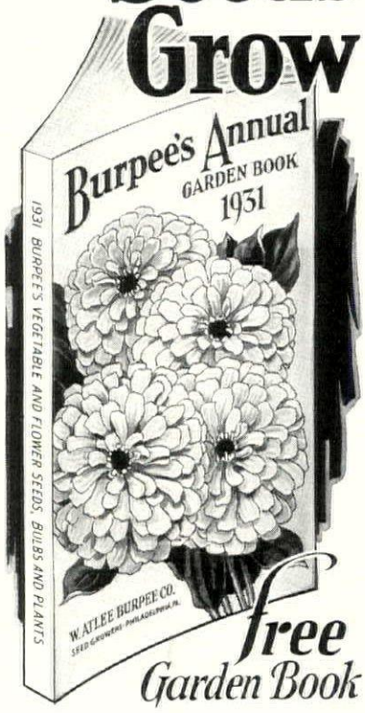
THE BOOK OF BULBS. By F. F. Rockwell. New York: The Macmillan Company.

IF the author had only the pen of a ready writer—and that he has—even with his extraordinary versatility in the fields of the growing and the handling of plants for all purposes, he would certainly have run amuck among the bulbs. But in this little book he has apparently all of them, and they are more than most gardeners, even professional gardeners, have any idea of; he has not only found them but has also become familiar with them. Yet he was not content with bulbs proper; he had to put into this volume of less than three hundred (not large) pages all kinds of Irises, along with the bulbous ones, and Peonies and Dahlias. With the latter two subjects he succeeds fairly well, it might be said, in view of his limitations of space. Fortunately his permission to use manure and bone-meal for Peonies and Irises in general is not availed of by many gardeners these days! But his treatment of Irises is particularly sketchy, and yields only a very faint idea of what treasures have been acquired among the tall, bearded varieties. Refreshing indeed it is, however, to find clear and actually practical points to observe in planting and managing bulbs, with most gratifying emphasis upon the need of providing bulbs with proper soil for them to send their roots into.

Another great merit is his prudent advice about the possibility of using bulbs successfully for all seasons of the year, as possessing more advantages than any other class of flowering plants. There is proper emphasis upon the need of allowing the sap to return from the foliage into the bulbs before they are harvested; but he seems to go too far in advocating that practically all of the Tulip bulbs should be taken up annually, for the now so popular Breeder, Cottage and Darwin Tulips generally do very well a second and often a third year without being replanted. There is suitable appreciation of the rising popularity of Daffodils and of the many minor bulbs, most of which precede even the Daffodils as "bright heralds of Spring's entrance into the garden." And in the part devoted to the half-hardy and spring-flowering bulbs, the book is again particularly serviceable,—as it is most satisfying in telling, in a clear and eminently sensible manner, how to obtain bloom from bulbs in winter. How best to manage bulbs for cut flower purposes, how to propagate them and how to cure the few diseases that they are occasionally afflicted with, are other topics that round up the wide range of this commendable little book.

F. B. M.

Burpee's Seeds Grow



free Garden Book

The Vegetables and Flowers you would like to see growing in your garden—read all about them in Burpee's Annual Garden Book.

It describes the Burpee Quality Seeds, Bulbs, and Plants. An interesting book, full of pictures and garden news. Many leading varieties are illustrated in natural colors. Burpee's Annual will help you to grow more beautiful flowers and improved vegetables. It is the catalog that tells the plain truth about the Best Seeds That Grow.

New Vegetables and Flowers

New Giant Tomato "Tangerine"—bright orange with golden orange flesh—as distinct in flavor as in appearance. Read about "The Burpee", the loveliest Sweet Pea ever introduced, also about "Ruffled Orchid", the newest of the Ruffled Sweet Peas. New Giant Dahlia "Asbury Park"—strawberry-red, shaded orange and old gold . . . and others.

Lower Prices

The prices in Burpee's Annual have been greatly reduced. You can now buy Burpee Quality Seeds as low as 5¢ per packet. Burpee's Seeds are guaranteed to grow and give satisfaction.

Write for your garden book today.

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255 Burpee Building, Philadelphia, Pa.

Send me a free copy of Burpee's Annual Garden Book.

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FOR LUXURIOUS SHADE

Plant the Beautiful—Hardy—Fast Growing

CHINESE ELM

(North China Strain)

Plant this Spring and enjoy abundant shade in a few short years.

The tree shown is growing at Sodus Point, New York, on Lake Ontario. When planted three years ago it was a little whip 5 feet tall. Last August it measured 17 feet high, with a branch spread of 10 feet and a 4 inch trunk.

The Chinese Elm is the fastest growing tree we know. It thrives anywhere, in any kind of climate, from Arizona to Saskatchewan. One of the first trees to leaf out in Spring and the last to shed in Fall. A tree of rare beauty and symmetry, resisting drought and cold, and flourishing in poor soil. It is ideal for planting on new developments, sub-divisions, streets, in parks, for windbreaks, screens and as individual lawn shade trees.

CAUTION! Be sure to buy only the hardy North China Strain, endorsed by the U. S. Department of Agriculture. Cheap Chinese Elms from seed gathered near Nanking have none of the fine qualities of the North China Elm, and results from planting them are disappointing. We grow only the hardy, certified North China Elm.

Write for Free Catalogue

Our new Catalogue, beautifully illustrated in full color, describes the Chinese Elm, and a complete line of Evergreens, Shrubs, Perennials, Trees and Plants of every variety for large or small planting, all grown under rigorous climatic conditions at Rochester, N.Y.

An expert Landscape Department is at your service. Write for the free Catalogue today.

Glen Brothers, Inc. GLENWOOD NURSERY

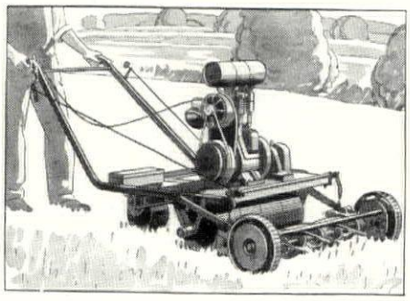
1763 Main Street, Rochester, N. Y. Established 1866

"We furnish the home—outdoors"

NEW, SILKY-SMOOTH POWER

to give you LAWNS

THAT RIVAL ENGLAND'S



A great—even—flow of power drives the new Ideal Mowers. Swifter cutting — smoother lawns. Greater power gives new handling ease on corners and steep grades. Timken bearing crankshaft. Fool-proof lubrication. Motor does not overheat.

World's most complete line. New wheel type, 20 and 25-inch cut. New roller type, 22 and 30-inch cut. Only consistent rolling gives the finest lawns. Illustrated brochure in colors shows the way to new lawn beauty.

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403 Kalamazoo Street, Lansing, Mich.

FACTORY BRANCHES:

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237 Lafayette St. New York City
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Dealers in all principal cities

TRIPLEX the GREEDY

The work-greedy Triplex can cut 35 acres per day. Backs up — turns around in its own length—cuts right up to walls —dodges shrubbery.

THE NEW **IDEALS** 5 SIZES

The Easy Way to Beautiful Plantings

"THE Easy Way to Beautiful Plantings"—a remarkable 40-page book—shows how simple it is to give any home a handsome setting. Simple illustrations, like those above, help you to select and arrange foundation plantings, corner groups, borders, hedges and screens; to plan a rose garden, a rock garden, a trellis—to embellish any part of your grounds with rich and graceful plantings.

This 1931 book marks the 41st anniversary of Barnes Bros. Nursery, with whom *quality* and *integrity* are a tradition. Send for it *now*. Soon the time will be here for making your selections. Nowhere else will you find such authoritative guidance presented in such a simple, helpful way. It's *free*—see note under picture.

THE BARNES BROS. NURSERY COMPANY
Box 21, Yalesville, Connecticut

The Original
BARNES BROS. NURSERY
Established 1890

"The Easy Way to Beautiful Plantings" is free to residents of New England, N. Y., N. J., Pa., Del., and Md. Elsewhere: 25c.

Evergreens, Trees and Shrubs that are "Out of the Ordinary"

Produced by a Plant Specialist and Reasonably Priced

Pride in home surroundings and increase in property values go hand in hand when good plant material is used. Our Evergreens and Shrubs are of the extra good grade—the kinds that give you a high per cent of satisfaction. With beautiful top growths and sturdy root systems, well packed with a big ball of earth and carefully shipped, you can depend on the Bagatelle Nursery to deliver just *what* you specify and *when*.

BAGATELLE NURSERY

Our brand new catalog is liberally illustrated with photos like the one below. It abounds with suggestions for foundation plantings; for groupings; for driveways; for wind breaks; for landscaping; for borders; etc. It is sent gratis. Spring is "just around the corner", so write today for your copy. Address the

BAGATELLE NURSERY Half Hollow Hills
Box 37, Huntington, Long Island, N. Y.

One famous Scarlet Beauty Apple bearing 25 fruits 3 years after planting

DWARF APPLE TREES
DWARF PEAR TREES
DWARF PLUM TREES
DWARF CHERRY TREES
DWARF PEACH TREES

Send for free catalog today

See what unusual table fruits you can grow and find out why these famous Van Dusen Dwarfs both beautify your garden and give you plenty of fruit for home use—Remember our dwarfs fruit in ½ the time and occupy less than ½ the space—In addition they are much easier to plant, much easier to care for and very easy to pick.

Catalog describing these Dwarfs, Roses, Shrubs and Ornamentals free for the asking.

Van Dusen Nurseries
Box H Geneva, N. Y.

The Garden Scrap Book

BRUSH BURNING. Winter and snow-covered ground make ideal conditions for setting fire to that brush-pile which you were afraid to light last fall because of the predominant drought conditions. There need be no fear of the blaze getting out of control now—the woods couldn't be set afire if you wanted to.

If the pile is wet, don't be discouraged. A bunch of old newspapers pushed under it and a quart of kerosene sprinkled around on top will create conditions which a single match can transform into a regular Election Night bonfire.

APRICOTS. For some strange reason, relatively few people grow Apricots, though they may have plenty of Apples, Cherries, Plums and maybe Peaches. Yet the Apricot, properly ripened, is a delicious fruit and is not at all common in the average fruit stores.

Apricots are no more difficult to grow than Peaches, and can be planted wherever the latter are practical. Only two or three varieties are generally available—Moorpark, Harris and Bud. They are abundantly worth while and to those who have not tried them we can think of no better an investment than a few trees set out early this spring.

LOOK AT THE MULCH. If a period of snowless, bare ground comes along, better look at all the winter mulches to make sure they are staying in place. Strong winter winds have a way of blowing away leaves and other light mulching materials if you don't watch out. And since this month and next will be the time when proper protection of the plantings is most needed, a thorough check-up and replacement of any disturbed coverings become especially important.

RABBITS KEEP OUT. For such a gentle, innocent looking little beast, the cottontail rabbit is provocative of more damage and profanity among garden people than any other four-footed creature, unless it be the mole. In the winter especially he evinces an inordinate fondness for young fruit tree bark, and in a single night can do a job of girdling and pruning which very often means the death of the tree.

There is just one sure means of guarding against this damage, so far as we know: a protecting circle of wire netting around each tree. Let it be of 1″ mesh and at least 2′ high (3′ is better, in regions of deep snow). For really young trees with branches close to the ground, the diameter of the guard should be great enough to enclose all the twigs, as these tender growths are especially appealing to bunnies. Where it is merely a case of protecting the trunk bark, the wire does not need to stand more than an inch or so away from the wood.

SEEDS IN WINTER. At this time of year, when a snowstorm starts, it is well to remove the sash from the

FOR a permanent foundation planting, here's a beautiful assortment of Will's northern-grown shrubs at the special price of $1.50. One each of the following, varied in size at maturity:—Tartarian Honeysuckle; Yellow Flowering Currant; Van Houtte Spirea; Sand Cherry; (Small shrubs)—Froebelli Spirea; Billardi Spirea.

TREES, FLOWERS, VEGETABLES

All of Will's fruit and shade trees, flowering shrubs, hedges, perennials, garden seeds, are grown under our own supervision in the coldest section of the Northwest. Bred to yield despite severe cold, wind, drouth. Send for our valuable new Catalog; it's free. Describes and pictures hundreds of the world's earliest varieties. Special discount on all seed corn, garden seeds and nursery stock ordered before March 1.

$1.55 GARDEN COLLECTION $1.00

Save 35% on Will's famous Vegetable Collection for a 25 x 40 ft. garden. Contains varied amounts of beans, beets, carrots, Golden Bantam Sweet Corn, cucumbers, lettuce, onions, parsnips, peas, radishes, Swiss Chard. All big yielders. Send today!

OSCAR H. WILL & CO.
Box M-1 Bismarck, N. D.
Pioneer Seedhouse, Nursery and Greenhouses

WILL'S SEEDS GROW QUICK

HENDERSON'S SPECIAL OFFER

If you will send us 10 cents, and mention where you saw this advertisement, we will mail you Henderson's new catalogue, "EVERYTHING FOR THE GARDEN," and the new Henderson 25c Rebate Slip.

Every Rebate Slip Counts As Cash

The Henderson Rebate Slip, when returned to us, will be accepted as 25c cash payment on any order of Two Dollars or over. In addition, we will include with your order, without charge, our Henderson Specialty Collection of six of our best-known introductions:

One packet each of Ponderosa Tomato, Big Boston Lettuce, Early Scarlet Turnip Radish, Invincible Asters, Brilliant Mixture Poppies, and Giant Waved Spencer Sweet Peas.

"Everything For the Garden"

is the title of our annual catalogue. For 1931 it is a beautifully illustrated book with 16 full color plates and hundreds of interesting illustrations direct from actual photographs of results from Henderson's seeds—the finest and most complete catalogue we ever issued.

PETER HENDERSON & CO.
35 CORTLANDT ST. NEW YORK

Easy to Have BEAUTIFUL GROUNDS

Neosho Grower's Guide, with 63 full color illustrations—FREE! Our Landscape Service and plant materials make it easy to have beautiful grounds and out door living rooms. Original ideas and sketches for practical, artistic landscape effects, especially planned for your own grounds. Pleased customers in every state. Mr. Taylor of Tulsa, Oklahoma, is very much pleased with his grounds landscaped by us for $4,500. Our fruit customers buy from us year after year. Write to-day!

"Yours for Growing Satisfaction"

NEOSHO NURSERIES CO.
231 Highland St.
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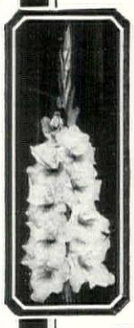

Carefully Matched DAHLIAS *and* GLADIOLUS

EVERY selection from our big 1931 free catalog of outstanding new and standard varieties comes to you carefully color-checked. Detailed descriptions are extremely accurate. All healthy stock moderately priced. Write today.

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Originator and Grower of Outstanding Varieties
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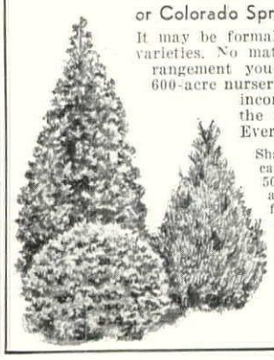
HILL'S EVERGREENS

PICTURE in your mind the beauty that comes to your home when Hill's Evergreens are a part of the planting scheme. The stately Juniper vies for attention with the graceful Arborvitae; the dwarf-like Mugho Pine adds a color tone in low relief; while the Japanese Yew, the Red Cedar or Colorado Spruce lend the charm of variety.



It may be formal effect you are after; or a "careless" profusion of varieties. No matter. With Hill's Evergreens you may have any arrangement you desire. For here in our 600-acre nursery is every variety—trees of incomparable beauty, that are the result of over 75 years of Evergreen specialization.

Shall we send you this season's catalog? It is complete—contains 50 illustrations in natural colors and a wealth of practical information on Evergreen grouping and planting. In writing for catalog enclose 25c (coins or stamps), which will be refunded on first order you send us.

D. HILL NURSERY CO.
EVERGREEN SPECIALISTS
Largest Growers in America
Box 301 DUNDEE, ILL.

EVERGREENS · FREE ·

SEND 25c

to Cover Packing, Postage, Handling and we will send 20 Norway Spruce Seedlings, 4 to 6 in., Free. Special introductory offer to start you beautifying and improving your home grounds.

TREES—SHRUBS FRUITS—FLOWERS

40 Million Evergreens, 600 acres Shrubs, Fruits, etc. Sold by catalog Direct - from - Nursery-to-User at prices never before made. Lowest in 15 years. Don't miss this money saving opportunity to improve your home grounds.

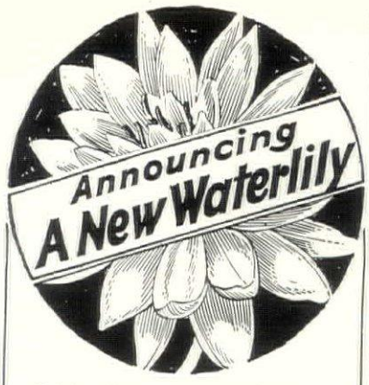
CATALOG FREE
Full of landscaping plans and suggestions. Tells about free plan service. Fruits, Flowers, Shrubs, etc., in actual colors. Valuable information about planting and growing.

25¢

25 assorted Gladiolus Bulbs, blooming size 25c, or 2 Bridal wreaths, 25c, or 10 Shasta Daisies 25c. At these prices you are only paying about what it costs to pack, handle and ship; the stock is practically Free.

8 APPLE TREES $1.98
1 Duchess, 1 Wealthy, 2 Jonathon, 2 Delicious, 2 Gano, 3 to 4 ft., 2 year roots, all 8 for $1.98 postpaid.

EARL FERRIS NURSERY
545 Bridge St.
Hampton, Iowa



Originated and patent applied for by Three Springs Fisheries, Frederick, Maryland

THIS new Waterlily is a lovely shade of soft pink, unlike any other variety. The flowers are large, full double, and the plants bloom with more than usual freedom. Visitors and experts are enthusiastic in its praise. You will be delighted with this new Waterlily when you see it in flower in your own pool. Pictured in *natural color* and fully described in our

1931 Catalogue of Waterlilies and Fancy Fish

which presents many other popular white, pink, red and yellow Waterlilies, aquatic plants and Fancy Fish. We shall be pleased to mail a copy on request.

THREE SPRINGS FISHERIES
22 N. Court St., Frederick, Md.

The Garden Scrap Book

frames where alpine or other perennial seeds were sown last fall, and allow the flakes to bury the planted area. When the storm is over the sashes are replaced and left with one end raised an inch or so for ventilation.

The principle back of this proceeding is simple enough. What it amounts to is merely the creation of idealized natural conditions—cold, a blanket of snow, and freedom from destructive washouts if a thaw comes or a heavy rain arrives to bring havoc to unprotected things. The results are a high percentage of seed germination in the early spring, and a stand of healthy, robust young plants that should make excellent growth throughout the season.

PLANT SUPPORTS. Adequate stakes or other means of support for those kinds of plants which require it are essentials in every well managed garden, and there is no point in trying to get along with poor ones. The initial extra cost of good supports is more than offset by their durability, the ease of managing them and the improvement they make in the appearance of the garden.

Two types of wide and thoroughly practical application are available in all the better supply stores. The first consists of a heavy hardwood stake on which a stout wire loop or ring is so attached that it can easily be fixed in a horizontal position at any desired height. The stakes range from three to six feet in height, and are intended for such relatively tall, slender plants as Delphinium, Foxglove, Hollyhock, etc.

For more bushy, spreading plants, the second device, known as a Peony or Tomato support, is excellent. This consists of two or more heavy wire stakes, depending upon the space to be covered by the support, each of which is bent and curved at the top so that, when fitted together, they form a ring entirely enclosing the plant.

In both of these cases the supports give the necessary protection against flopping over and breakage, while still allowing the plants to make normal, graceful growth.

GROW YOUR OWN. If we had our way about it, every garden in the land would have at least a small area devoted to vegetables. Without decrying the merits of planting for esthetic pleasure alone, we insist upon the right of gastronomic as well as visual enjoyment to a place on the horticultural menu. And not even the most determined of ornamental champions can deny that there are certain vegetables which, from the epicurean standpoint, can be grown far better than they can be bought.

Asparagus, for instance, and Corn and Lima Beans and Peas and wee young Beets. How often can you buy these so fresh that they're in the pot within an hour after leaving the ground? Well, how often can you find a dodo when you go looking for one?

(*Continued on page* 125)

Here is *your* copy

The **Storrs & Harrison Co's. 1931 Spring Catalog**

Trees · Plants · Shrubs · Vines · Seeds · Etc.

JUST off the press — the beautiful new catalog of America's Oldest and Largest Departmental Nursery. More illustrations in color than ever before—more new charts and diagrams to help you beautify your grounds—and the most complete listing of trees, shrubs, plants, seeds, etc., including uncommon varieties not usually found in the average Nursery catalog.

You'll find chapters giving easy-to-follow instructions on how to plan and plant a modern Outdoor Living Room and Rock Garden. You need this helpful catalog. Send for it now.

Mail this Coupon

The STORRS & HARRISON CO.
Box 219. Painesville, Ohio.

Gentlemen: Please send me FREE, a copy of 1931 Spring Catalog.

Name.....

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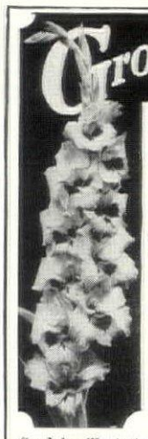
Grow GLADS



Make your garden the envy of your friends with Gove's Sturdy Vermont Glads. Best of garden cut flowers—very easy to grow. Our special "get acquainted" offers will make you an enthusiastic "glad fan." Bulbs guaranteed to bloom first year.

100 LARGE STURDY VERMONT BULBS $3

This collection includes at least 40 fine varieties, in many shades of Red, Yellow, Pink, Blue, Orange, Smoke, White, all good ones but not labeled as to name. 50 for $1.75. ALL SENT PREPAID, with complete instructions for growing prize-winners. I believe this to be the finest "glad" collection offered anywhere.

Send for illustrated catalog "that is different," listing over 300 of the world's best varieties.

CHAMPLAIN VIEW GARDENS
ELMER E. GOVE, (Box L-1)
Burlington, Vermont

4 *New Chrysanthemums* *That Bloom in Early Autumn*

With gold, pink, bronze and white these extra early flowering Chrysanthemums brighten the garden with a great display of color before frosts come. The wonderful colors, and the early bloom, give them distinct value for cutting as well as garden use.

R. Marion Hatton. Decorative Pompon type. Brilliant canary-yellow. Carries many flowers from late September.

Frances Whittlesey. Rich bronze and garnet flowers are gorgeous in early October.

October Dawn. Soft daybreak-pink, especially appealing to those who like delicate colors.

Jean Cumming. A truly magnificent pure white; large and an early bloomer.

These new Chrysanthemums will be pictured in color in our catalogue for 1931, which also presents other favorite Chrysanthemums introduced by Bristol, and many new perennials of merit. A copy will be mailed on request—we suggest that you write us today.

BRISTOL NURSERIES, Box 8, Bristol, Conn.

Insect Pests Of Every Kind Are Quickly Destroyed by Wilson's O. K. Plant Spray. Protect your flowers, plants, shrubs and evergreens by spraying frequently and thoroughly.

Trade Mark Registered

Wilson's O. K. Plant Spray is sold by leading stores everywhere and the genuine may be identified by the famous Trade Mark. Write us, if your dealer cannot supply your requirements.

Wilson's Awinc
(Pyrethrum Spray)

Non-poisonous, highly concentrated PYRETHRUM spray. Easily controls more resistant type of insect such as Japanese Beetle, Red Spider, Rose Chafer, Cabbage Worm, White Fly, etc. *Complete*, requiring only a dilution with water.

Then there is Wilson's SCALE-O . . . the powerful *dormant* spray so necessary to the successful growth of fruit and other trees. Scale-O kills Scale insects and eggs—even in Winter. Mixes readily in cold water . . . covers very rapidly and evenly. 1 Gallon $2.00; 5 Gallons $9.00.

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SPRINGFIELD, NEW JERSEY

Bargains: Trees Plants
Best Quality

25¢ 50¢ $1.00

Finest Varieties Vigorous Stock PREPAID

25 **Gladioli,** bloom'g size mix. colors 25c
3 **Hardy Sweet Peas,** 3 colors . 25c
2 **Snowball Hydrangea,** 2 yr. old 25c
1 **Evergreen Bittersweet,** 3 yr. 25c
2 **Oriental Poppies,** scarlet . 25c
2 **Scotch Pines,** 6 to 12 inches 25c
3 **Weigelia,** Pink 2 yr. 50c
3 **Spirea Van Houttei,** 2 yr. . 50c
6 **Rock Plants,** 6 best kinds . 50c
3 **New Chinese Elm,** 18 in. to 2 ft. 50c
5 **Norway Spruce,** 4 yr. 10 in. . . $1.00
1 **Colorado Blue Spruce,** 4 yr. 8 in. $1.00
1 **Chinese Magnolia,** 6 to 12 in. . $1.00

Satisfaction guaranteed. Order today. Will ship when wanted. **We pay postage. Big FREE Catalog** shows hundreds of bargains in trees, shrubs, plants, evergreens, vines, roses, hedges, etc., Many new varieties. Write for it today.

SPRING HILL NURSERIES
Dept. 107 Tippecanoe City, Ohio

A New Pink Larkspur

A beautiful, true bright, clear pink annual Larkspur which blooms in August and September from seed sown out of doors in the spring.

The long spikes of double pink flowers bloom at the time the garden most needs color. It is the most beautiful and valuable late flowering pink annual we know and is ideal for cut flowers.

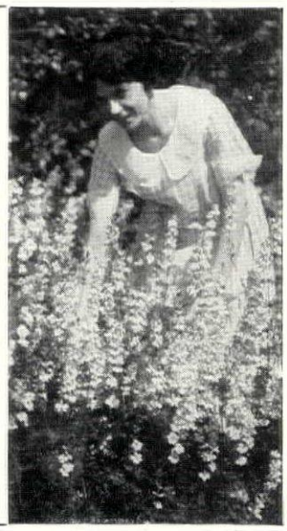
Special Offer—For 25c in stamps we will send a large packet of Los Angeles Pink Larkspur. And also

Free *The Interesting Text Book* "SECRETS of GOOD GARDENING" Free

In this Free Book even advanced amateurs will find valuable hints on Garden planning and the control of garden pests.

We are large growers of Vegetable and Flower Seeds, Bulbs and Plants. Our 108-page Catalog in color gives you just the information you want about each variety and offers the opportunity of buying Harris northern grown seeds direct from our farms at growers' prices. *Ask for the Catalog today. It is Free.*

JOSEPH HARRIS COMPANY, INC.
R. F. D. 16 Coldwater, N. Y.



Trade Literature Reviews

Each month there will be briefly reviewed on this page a number of the new brochures, pamphlets and catalogs which have been issued by House & Garden's advertisers. Address concerns direct for this literature, or simply check the list below for the material in which you are interested . . . write your name and address in the lower margin . . . tear out this page . . . mail it to House & Garden's Reader Service Bureau, Graybar Bldg., New York City, and we will have these booklets sent to you. Where payment is mentioned, please enclose your remittance in stamps.

Building Materials

Bathroom Fixtures & Plumbing

HOMES OF COMFORT. A chart in front of the catalog shows the colors, both plain and marbleized, in which Crane fixtures are available. Illustrations show bathrooms and kitchens equipped with colored fixtures. CRANE CO., 836 S. MICHIGAN AVE., CHICAGO, ILL.

MODERN IDEAS FOR THE USE OF TILE. A booklet showing bathrooms and modern kitchens walled and floored with Robertson Art Tiles in attractive combinations of color. There is a wide range of colors and surface textures. ROBERTSON ART TILE CO., H. G. 4, TRENTON, N. J.

Hardware

HARDWARE FOR UTILITY AND ORNAMENTATION. A wide selection of hardware for both front doors and interior doors is to be found in this attractive booklet. Helpful instructions are given on selecting locks. SARGENT AND CO., NEW HAVEN, CONN.

Heating, Ventilating & Accessories

MODERN TEMPER-SAVING HEATING SERVICE. The advantages of Bryant Gas Heating are set forth in this booklet. The cleanliness of this heater helps to make a livable room out of the basement. THE BRYANT HEATER & MFG. CO., CLEVELAND, OHIO.

THE SMITH "16". There are three important features connected with this boiler, which are explained in the booklet, through text and drawings. Can be used for steam, hot water or vapor heating, and fuel can be coal, coke, oil or gas. THE H. B. SMITH CO., K-32 WESTFIELD, MASS.

MODERN STYLE IN ROOM HEATING. The Trane Concealed Heater described in this booklet operates from the same boiler and piping system as the ordinary radiator. A section of the book is devoted to "Facts About Trane Concealed Heaters." THE TRANE COMPANY, LA CROSSE, WIS.

CONTROLLED HUMIDITY AND HUMAN COMFORT. The Lewis Corporation has endeavored to explain in simple terms the necessity for humidification. There is a discussion of the operation and purpose of the Lewis Air Conditioner. THE LEWIS CORP., MINNEAPOLIS, MINN.

House Building Materials

SEDGWICK DUMB WAITERS AND ELEVATORS. The many types of dumb waiters and elevators manufactured by this concern are described and illustrated in this booklet. Invalid elevators, book lifts, fuel lifts and freight elevators are also included. SEDGWICK MACHINE WORKS, 150 W. 15TH ST., NEW YORK CITY.

CELOTEX. Celotex Cane Fibre Insulating Board is described in this booklet as a double-duty material, for it both builds and insulates. A list of the Celotex products and their uses are given in the back of the booklet. THE CELOTEX CO., 919 N. MICHIGAN AVE., CHICAGO, ILL.

PLANK FLOORS AS CRAFTED BY BRUCE. Photographs show rooms floored in Bruce planks, which are available in oak, American walnut and Philippine mahogany. The oak planks can be obtained in three grades and five widths. E. L. BRUCE CO., MEMPHIS, TENN.

INCREASING HOME ENJOYMENT. The advantages of insulation in the home are set forth in this booklet. The text explains how Insulite is used for sheathing, plaster base, wall board and roof insulation. THE INSULITE CO., BUILDERS' EXCHANGE, MINNEAPOLIS, MINN.

JUST BETWEEN YOU AND THE WEATHER. United States Mineral Wool is described in this booklet as an indestructible insulation that is heat-proof. Several letters from satisfied users are reproduced. U. S. MINERAL WOOL CO., 280 MADISON AVE., NEW YORK CITY.

House Building Materials (Cont.)

ZENITHERM FOR WALLS AND FLOORS. Fine photographs show how Zenitherm can be used for both walls and floors. This product looks and wears like marble, but it can be worked like wood. Detailed drawings describe the manner of installation. ZENITHERM CO., 110 E. 42ND ST., NEW YORK CITY.

THE NEW STANDARD OF HOME CONSTRUCTION. How Weatherwood combines both the features of sheathing and insulation is told in this booklet. CHICAGO MILL & LUMBER CORP., 111 W. WASHINGTON ST., CHICAGO, ILL.

Incinerators

INCINERATORS. (Chimney-Fed). This booklet describes the Kernerator and explains how it operates. Built in a number of sizes, it is designed to meet the requirements of both small and large residences and apartments. KERNER INCINERATOR CO., MILWAUKEE, WIS.

Portable Houses

HODGSON HOUSES. Several models of Hodgson Houses are illustrated, accompanied by floor plans. In addition this company also makes garages, play houses and a wide selection of garden furniture. E. F. HODGSON CO., 1108 COMMONWEALTH AVENUE, BOSTON, MASS.

Roofing & Shingles

ROOFS. This beautifully illustrated book shows colored photographs of a number of residences roofed with Imperial Roofing Tiles. They are available in a variety of shapes, shades and textures. A charge of twenty-five cents is made for this book. LUDOWICI-CELADON CO., 104 S. MICHIGAN AVE., CHICAGO, ILL.

MAKING OLD HOUSES INTO CHARMING HOMES. A collection of houses which have been modernized by the application of Weatherbest Stained Shingles. Both before and after views are shown. A charge of ten cents is made for the book. WEATHERBEST STAINED SHINGLE CO., INC., N. TONAWANDA, N. Y.

Windows, Doors, Screens

CRITTALL METAL WINDOWS. Several types of Crittall casement windows are illustrated in this catalog. Technical drawings explain the construction of the casements and photographs show their appearance. CRITTALL CASEMENT WINDOW COMPANY, DETROIT, MICH.

A SIMPLE CURE FOR EXCESSIVE HEATING COSTS. How Monarch Metal Weatherstrip affects the volume of air and the fuel consumption is explained in this leaflet. MONARCH METAL WEATHERSTRIP CO., 5020 PENROSE ST., ST. LOUIS, MO.

Gardening

Fences

ARTISTRY IN WROUGHT IRON ENCLOSURES. The durability and beauty of wrought iron are described in this booklet. Several photographs show styles of Page ornamental fences. PAGE STEEL & WIRE CO., 520 N. MICHIGAN AVE., D12, CHICAGO, ILL.

Seeds, Bulbs and Nursery Stock

BURPEE'S ANNUAL. An extensive list of vegetable and flower seeds. Four new Burpee Sweet Peas are described in this catalog. W. ATLEE BURPEE CO., 254 BURPEE BLDG., PHILADELPHIA, PA.

DREER'S GARDEN BOOK. An invaluable source of information to all who are interested in plant material for both indoors and outdoors. HENRY A. DREER, DEPT. K 1306 SPRING GARDEN STREET, PHILADELPHIA, PA.

SECRETS OF GOOD GARDENING. This interesting catalog has 108 pages containing a wealth of information on gardening and the control of garden pests. There are several color illustrations. JOSEPH HARRIS CO., R. F. D. 5, COLDWATER, N. Y.

EVERYTHING FOR THE GARDEN. A catalog covering the whole field of vegetables, flowers and many of the smaller fruits. It is a compendium of information for the home gardener. PETER HENDERSON & CO., 35 AND 37 CORTLANDT STREET, NEW YORK CITY.

HILL'S EVERGREENS. A catalog containing fifty illustrations of evergreens in natural colors, and practical information on evergreen grouping and planting. The catalog costs twenty-five cents but this will be refunded on the first order sent to the nursery. D. HILL NURSERY CO., BOX 301, DUNDEE, ILL.

KUNDERD'S 1931 GLADIOLUS BOOK. An annual catalog of gladioli including both the ruffled and laciniated types. Altogether 600 kinds are described and illustrated. A. E. KUNDERD, 126 LINCOLN WAY WEST, GOSHEN, IND.

SCHLING'S BULBS. This annual bulb catalog features a number of new and fine varieties of Tulips and Narcissi. MAX SCHLING SEEDSMEN, INC., 618 MADISON AVENUE, NEW YORK CITY.

HOW TO LANDSCAPE THE HOME GROUNDS. A booklet written in simple language for the amateur who wishes to landscape his own grounds. A charge of ten cents is made for it. THE STORRS & HARRISON CO., BOX 214, PAINESVILLE, OHIO.

FLOWERING TREES OF THE ORIENT. Mr. A. E. Wohlert has specialized in Japanese flowering cherry trees for years and this booklet gives some idea of the prominent position he has won. WOHLERT, 921 MONTGOMERY AVE., NARBERTH, PA.

House Furnishings

Clocks

FOR ALL TIME. An illustrated booklet describing Colonial Clocks which have been designed to fit in with practically any scheme. COLONIAL MANUFACTURING COMPANY, ZEELAND, MICH.

China and Glass

THE MARCHESA'S DINNER PARTY. An amusing story of a dinner party is told in this booklet and a number of photographs show various types of Carbone china and glass. A charge of twenty cents is made for the booklet. CARBONE, 348 CONGRESS STREET, BOSTON, MASS.

Drapery & Upholstery Fabrics

FABRICS, THE KEY TO SUCCESSFUL DECORATION. Here is a book of practical help to those who are planning home decoration. It discusses the importance of color in decoration and gives the characteristics of the different periods. F. SCHUMACHER & CO., 60 W. 40TH STREET, NEW YORK CITY.

Floor Coverings

KARASTAN RUGS. Seventeen Oriental rug patterns are shown in this booklet. They are produced on looms that make it possible to reproduce even the finest color values. KARASTAN RUG MILLS, 285 FIFTH AVE., NEW YORK CITY.

NEW IDEAS IN HOME DECORATION. Practically every room in the house is illustrated in color in this brochure. The floor of each of these rooms is covered with some type of Armstrong linoleum. A mailing charge is made of ten cents. ARMSTRONG CORK CO., FLOOR DIVISION, LANCASTER, PA.

DECORATING YOUR HOME. The many lovely color illustrations of interiors decorated in various period designs offer helpful suggestions to the home owner. A charge of fifty cents is made for the book. BIGELOW-SANFORD CARPET CO., 385 MADISON AVE., NEW YORK CITY.

Floor Wax

THE SECRET OF BEAUTIFUL FLOORS. How Floorola wax can bring luster to your floors is told in this booklet. The wax is put on by the Floorola machine and it penetrates into the pores of the floor. THE FLOOROLA CORP., 480 SALEM AVE., YORK, PA.

Furniture

THE CHARM OF A LIVABLE HOME. A few pieces of the Kittinger line of furniture are reproduced in this brochure, and plans are given showing attractive arrangements of furniture. KITTINGER CO., 1893 ELMWOOD AVE., BUFFALO, N. Y.

Household Textiles

SOME TABLE TALKS. Beautifully colored photographs show several settings in which Old Bleach Linen has been used as the table covering. A charge of ten cents is made for this book. THE OLD BLEACH LINEN CO., LTD., 448 FOURTH AVENUE, NEW YORK CITY.

NORTH STAR BLANKETS. An elaborately illustrated brochure showing a selection of blankets in white, colors and plaids. "NOCTURNE" is a special light weight summer blanket. NORTH STAR WOOLEN MILL CO., MINNEAPOLIS, MINN.

Kitchen Equipment

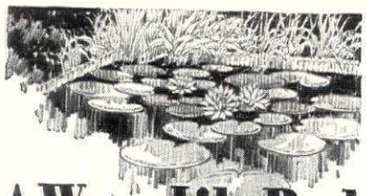
THE KITCHEN THAT MAKES A HOUSE—A HOME. Illustrations show the various styles of White House Units. The variety of designs and sizes available in these cabinets makes it possible to make a layout for either a large or small kitchen. JANES & KIRTLAND, INC., 101 PARK AVE., NEW YORK CITY.

THE DAWN OF A NEW DAY. Photographs show models of Walker Electric dishwashers. Several reasons are given as to why it is advantageous to have such a dishwasher. WALKER DISHWASHER CORP., 1024 S. WALLER AVE., CHICAGO, ILL.

TABLE COOKERY. The Edicraft Speed Toaster, Sandwich Grill, Waffle Baker and Coffee Siphonator are illustrated and described. Several appetizing recipes are given. THOMAS A. EDISON, INC., ORANGE, N. J.

Window Blinds

KANE QUALITY VENETIAN BLINDS. This booklet explains the ease and quietness with which Kane Venetian blinds operate. The different types are illustrated. They come in ivory, light green and light gray. KANE MFG. CO., KANE, PA.



A Water Lily Pool
for every garden

No garden is modern without the colorful beauty, exquisite fragrance and fascinating interest of a Water Lily Pool. Even small gardens have room for at least a simple tub-garden of Water Lilies.

Complete Water Garden—Only $5

Choice of pink, blue, yellow or white Water Lily; 6 Aquatic Plants; 6 Border Plants; Cedar Water Lily Tub and Pair of Snails. All for $5.

Illustrated Catalog Free

Shows you how to construct a pool or plant a tub garden. Describes and illustrates Water Lilies, Aquatic Plants and Ornamental Fishes. Gives cultural directions. Write for FREE copy today.

Fish Collection For Pool—$5.50

12 common goldfishes; 2 Calico or Gingham fishes; 6 each Tadpoles, Jap Snails, Ramshorn Snails; 2 Clams; Pair of American Salamanders; Shipping Can. All for $5.50.

Wm. Tricker, Inc
1104 Brookside Avenue — Water Lilies — Saddle River New Jersey

The Garden Scrap Book

(*Continued from page* 123)

Decidedly these and other vegetables of delicate flavor must be grown in the home garden if you would savor their true perfection. Maybe you don't want to bother with Cabbages and Potatoes and Turnips, but don't, if you love your sense of taste, pass up the real delicacies.

As a matter of fact, the grow-your-own argument might well be extended into the field of small fruits. There are several splendid varieties of Strawberries, Blackberries and Raspberries which are too soft and luscious to stand shipping, and consequently seldom appear in the markets. To deprive your table of them, provided you have the necessary space in which to grow the plants, is to deprive yourself of a very real treat. And, as has been said before in these pages, they're not too much trouble for any real gardener.

FORCING BULBS. When Hyacinths, Tulips and other bulbs, forced for winter bloom indoors, open their flowers while the stalks are still very short the trouble is usually traceable to the way they have been handled. As a rule, they have been given too great and sudden heat before top growth has made normal development. Sometimes the bulbs have not been given time to make sufficient root growth before being brought into the warmth and light.

Slow forcing is best for practically all kinds of bulbs. The temperature should range between 50° and 60° until the leaves are two or three inches long. By that time the pots should be ready for more warmth—around 70°. When the buds appear each pot should be covered with an inverted cone of heavy paper, the small end of which has been cut off to leave an opening about an inch in diameter. This is valuable in inducing long stems and checking the development of the flowers until height has been attained.

STEEL CURBING. The question of suitable curbing materials to mark the edges of garden walks, driveways and other areas where a line of sharp demarkation is desired often proves a very bothersome one indeed. Without going to too great lengths of elaborateness or artificial appearance it has been difficult to devise something practical and long-lasting. Wood strips, brick, concrete and the other materials usually employed have their disadvantages in many situations.

So it is particularly interesting to note that there is now available a curbing which, though widely adaptable, is extremely neat and serviceable. It is in the form of steel strips ¼″ thick and 4″ deep, held firmly in place with long steel stakes. When painted a grass green it is scarcely noticeable, yet it keeps the lawn edges in place with complete success. One of its great advantages is the ease with which it can be bent to conform with any curves which the design of paths or drives may follow.

We shall be glad to advise readers who write to us where this recent but well tested product can be obtained.

The SPOON is The ENEMY of The HIGH-BALL

ask BILLY BAXTER
how 'bout self-stirring
CLUB SODA and GINGER ALE
—his booklet tells all

THE RED RAVEN CORPORATION, CHESWICK, PA.
Your fancy dealer should supply you . . . if not, we will
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GENUINE English FLOWER SEEDS

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Please send me your new catalog.

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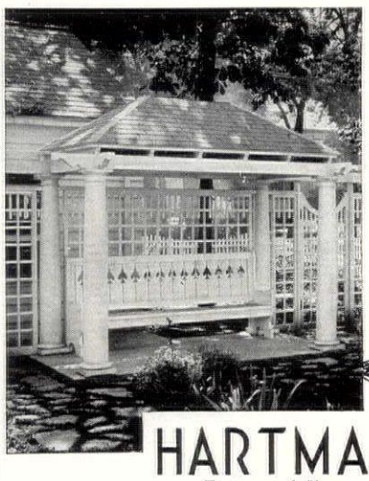

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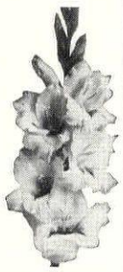

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for Better Horticultural Service

BAY STATE NURSERIES
Incorporated

—A consolidation of the two well-known firms—The Bay State Nurseries, North Abington, Mass. and Wyman's Framingham Nurseries, Framingham, Mass.

This combination enables us to supply an assortment of hardy ornamental nursery stock, unusual in range of variety and size, in quality and in quantity. Certainly not elsewhere in the northeastern states, if indeed in the whole country, can such a well-rounded stock of Trees, Shrubs, Evergreens, Rhododendrons, Azaleas and Perennials be found.

Control and management remain unchanged—the same high quality of dealings will continue, improved in many ways by this pooling of resources and experience.

Our Handbook for Spring 1931 will be "Off the Press" late this month. It lists and describes this unusual assortment of landscape and garden materials. A copy will be sent free east of the Mississippi and north of the Potomac (the territory we can best serve) —elsewhere upon receipt of fifty cents. May we suggest that you send for a copy?

Sales offices and show grounds will be maintained at Framingham, as well as at North Abington, as in the past. Correspondence, orders, or catalog requests may be directed to either office as you may prefer.

Bay State Nurseries
Incorporated
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I'll Tell You How

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My facial exercises build up these muscles and keep them young, strong and healthy. If lines are forming under the eyes, if cheeks are sagging more than they should, or if any of the tell-tale marks of time are showing on your face, you can't begin too soon to practice these wonderful exercises. You will notice results immediately in better color and improved circulation. And before you realize it, the lines and other blemishes will all be gone!

No need to use massages, creams, lotions, straps or treatments. No costly visits to beauty parlors.

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Mail your free book which tells how Kathryn Murray Facial Exercises can remove or prevent tell-tale marks of age.

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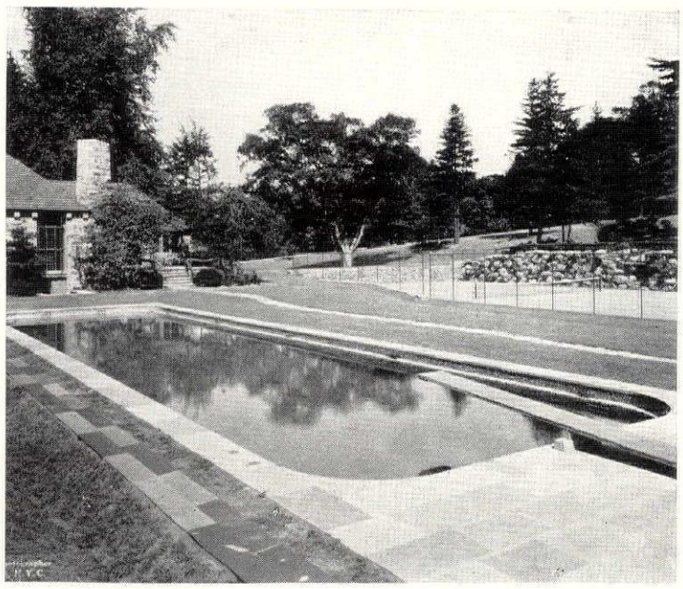

Pool on private estate Irvington-on-Hudson, N. Y.

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Swimming Pools

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Look through the travel advertisements in this magazine . . . write to these companies for literature . . . then you can decide.

Wholesale only

POLO WEATHERVANE, executed in the Perin forges, from a design by Bodrero. Perfectly balanced, it is mounted on an adjustable steel base with thrust bearings top and bottom. Height, 6 feet, 8 inches... width, 4 feet, 3 inches...base, 1 foot by 15 inches. Finished in triple-coated black lacquer, over steel. Available through your decorator or furniture dealer.

PERIN'S, Ltd.
Importers of Antiques and Manufacturers of Fine Wood and Metal Furniture
PASADENA, CALIFORNIA
San Francisco Showroom, 220 Post St.

HELPFUL HINTS to HOME BUILDERS

NO. 7

BEFORE *you build*

Consider screens while *planning* the new home. Screening is a most important detail — worthy of thought and care in advance.

Permanently good looking, smooth working and enduring screens do not come through afterthought. They must be made to measure by screen specialists — must embody certain features which only outstanding skill and years of experience can develop.

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Higgin Screen *Service* leaves no detail to chance. A local Higgin specialist works with you and your architect.

Where you can best use Sliding Screens, Swinging Screens or Rolling Screens — and how you can screen any opening — is told in the Higgin Screen Book, a copy of which will be sent you upon request.

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Screen Specialists Since 1893
General Offices: Newport, Kentucky.
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ENDURATED — The exclusive Higgin design and construction which insures utmost quality and enduring service.

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HIGGIN ALL METAL SCREENS

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Please send me the Higgin Screen Book.

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In homes so smoothly managed that they seem to run themselves . . . where all the family carry on their varied activities with ease and comfort . . . there are telephones located at convenient points throughout the house . . . in boudoir, library, sun porch, kitchen . . . wherever time and energy can be saved by quick communication.

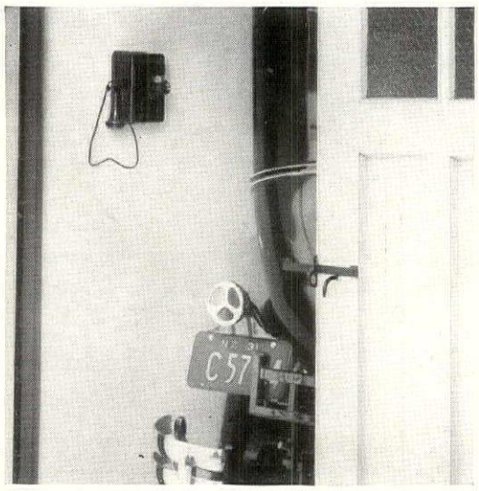
A telephone in the bedroom is a personal, intimate touch that young people appreciate. It saves steps during the day and adds an assurance of protection at night.

A telephone belongs *in the living room, used more than any other by all the family. Close beside the reading lamp, it prevents over-long interruptions in an interesting story or game or conversation.*

"WE'LL MEET YOU AT THE THEATER AT HALF-PAST EIGHT"

★

Telephones throughout the house are essential to gracious, comfortable living



A hurried trip to station, school or store? . . . A telephone conveniently located on the wall of the garage makes cars instantly available to any member of the family.

THE BUSINESS of living is a complex one in this restless, active age. It must be carefully planned, deftly managed. Or engagements pile up and schedules break down.

Some people seem always to live successfully, with fresh zest and interest for every day. You'll find the secret in their well-ordered homes. Where there is quiet and comfort, but no confusion. Where *telephones* are located at convenient points throughout the house.

Those telephones — in boudoir and bedroom, in living room and sun porch, in kitchen and laundry—save a great deal of time and energy.

There's no running upstairs or down. Incoming calls are instantly accessible in all parts of the house—to all the family. Calls can be made outside—to a friend, to store or school or office—as quickly and easily as they come to mind.

This telephone convenience is available in your home at moderate cost. Your local telephone company will gladly help you plan the arrangements best suited to your needs. Just call the Business Office.

AMERICAN TELEPHONE & TELEGRAPH CO. BELL SYSTEM AND ASSOCIATED COMPANIES

THE CONDÉ NAST PRESS GREENWICH, CONN.

The Mahogany Baby Grand, $1550, in an interior designed by the artist, Joseph B. Platt. There are Steinway models inspired by all the notable periods of decoration

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THE INSTRUMENT OF THE IMMORTALS

JOSEF HOFMANN *says: "I consider the Steinway piano absolutely unique."*

THE STEINWAY, turned and tooled from the finest woods, is a graceful, polished decoration for the cultured home . . . and it is much more. It is the piano that has played an incomparable part in the history of music. It is the chosen instrument of virtually every great pianist from Liszt to Hofmann . . . and it is the one piano so ruggedly and perfectly constructed that it will serve two or three generations with its rare richness of tone and its magic responsiveness. Throughout the entire course of its existence, the Steinway has been created under the personal supervision of the Steinway family. Today it is a better piano than ever before, because modern science has put improved tools, surer methods and better materials into the hands of Steinway craftsmen.

For the children's instruction, the Steinway has the especial advantage of leaving young talent, from the all-important first moment, unhandicapped by the distortive influences that lurk within practice on inferior pianos . . . and the Steinway is ever a source of civilized pleasure, a focal point of beauty and culture that will help make your family life attractive. . . . Yet it is sold in a manner that puts no strain on even the modest income.

A new Steinway Upright piano can be bought for a total as low as $875 *A new Steinway Baby Grand can be bought for* $1375 *As the Steinway is made in New York City, these prices, naturally, must be "plus transportation" beyond New York and its suburbs. Used pianos of all makes will be accepted in partial exchange for any style of Steinway.* 10% DOWN *balance in three years*

IF THERE IS NO STEINWAY DEALER NEAR YOU, WRITE FOR INFORMATION TO STEINWAY & SONS, STEINWAY HALL, 109 WEST 57TH STREET, NEW YORK

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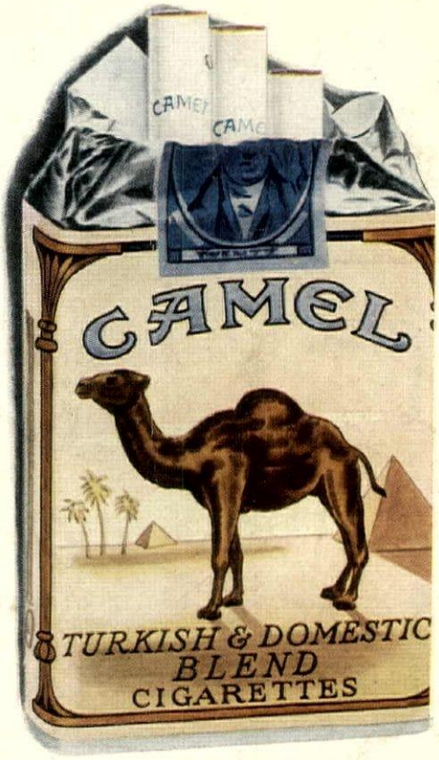

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